

DRAFT REPORT

**Tobacco Institute Testing Laboratory
Market Sample 31
“Tar”, “Nicotine”, and Carbon Monoxide Values**

March 1989

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Test Results**

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Alpine KFMSP	16.9±0.3	1.10±0.02	15.4±0.3
American Lights KFSP	11.9±0.2	0.91±0.02	12.9±0.3
American Lights 100's 100FSP	13.3±0.2	1.08±0.01	13.9±0.2
Belair KFMSP	10.7±0.2	0.84±0.01	9.8±0.2
Belair 100's 100FMSP	8.8±0.2	0.67±0.02	9.1±0.2
Benson & Hedges KFHP	15.4±0.2	1.26±0.02	12.6±0.3
Benson & Hedges 100's 100FHP	16.6±0.3	1.18±0.02	16.5±0.5
Benson & Hedges 100's 100FMHP	16.6±0.3	1.17±0.02	16.4±0.3
Benson & Hedges 100's 100FSP	16.6±0.3	1.19±0.02	16.2±0.4
Benson & Hedges 100's 100FMSP	16.8±0.2	1.20±0.02	16.2±0.3
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	5.0±0.2	0.44±0.02	6.2±0.3
Benson & Hedges Deluxe Ultra Lights 100's 100FMHP	5.2±0.1	0.47±0.01	6.2±0.2
Benson & Hedges Lights 100's 100FSP	10.7±0.2	0.83±0.02	13.0±0.3
Benson & Hedges Lights 100's 100FMSP	10.7±0.2	0.81±0.02	12.0±0.2
Benson & Hedges Multifilter KFSP	11.2±0.3	0.85±0.02	10.8±0.2
Bright 100s 100FMSP	6.0±0.1	0.44±0.01	10.3±0.3
Cambridge Full Flavor KFSP	17.1±0.3	1.09±0.01	16.1±0.3
Cambridge Full Flavor 100's 100FSP	17.2±0.3	1.17±0.02	16.0±0.3
Cambridge Lights KFSP	12.3±0.2	0.85±0.01	12.7±0.3
Cambridge Lights KFMSP	11.9±0.2	0.84±0.02	12.1±0.3
Cambridge Lights 100's 100FSP	12.0±0.2	0.87±0.02	14.5±0.4
Cambridge Lights 100's 100FMSP	11.9±0.2	0.86±0.01	14.6±0.4
Cambridge Ultra Low Tar 100's 100FSP	4.7±0.2	0.41±0.01	6.6±0.3
Camel RNFSP	22.0±0.3	1.39±0.02	14.2±0.4
Camel Filters KFHP	16.8±0.2	1.06±0.02	16.6±0.3
Camel Filters KFSP	15.6±0.3	1.01±0.02	15.4±0.2
Camel Filters 100's 100FSP	17.5±0.2	1.06±0.01	18.7±0.3
Camel Lights KFHP	9.9±0.2	0.64±0.01	11.8±0.3
Camel Lights KFSP	8.8±0.2	0.65±0.01	11.3±0.3
Camel Lights 100's 100FSP	11.4±0.2	0.81±0.01	15.0±0.3
Capri 100FHP	9.2±0.2	0.78±0.02	6.4±0.2
Capri 100FMHP	8.9±0.2	0.73±0.02	6.0±0.2
Carlton KFHP	<0.5	<0.05	<0.5
Carlton KFSP	1.3±0.1	0.15±0.01	2.4±0.1
Carlton KFMSP	0.6±0.1	0.09±0.01	1.4±0.1
Carlton 100's 100FHP	0.7±0.1	0.10±0.01	1.1±0.1
Carlton 100's 100FMHP	0.6±0.1	0.10±0.01	1.0±0.1
Carlton 100's 100FSP	3.4±0.1	0.35±0.01	4.6±0.2
Carlton 100's 100FMSP	4.5±0.1	0.42±0.01	6.4±0.2
Carlton 120's 120FSP	6.5±0.2	0.62±0.02	5.6±0.2
Carlton 120's 120FMSP	6.2±0.2	0.62±0.03	5.5±0.2
Century 25's (25) KFSP	15.3±0.3	0.99±0.02	17.8±0.3
Century 25's 100's 100FSP	17.5±0.3	1.13±0.02	20.9±0.5
Century 25's Lights (25) KFSP	9.7±0.2	0.70±0.02	11.8±0.3
Century 25's Lights 100's 100FSP	11.9±0.3	0.89±0.02	13.4±0.3
Century 25's Menthol Lights 100's 100FMSP	11.5±0.2	0.84±0.01	13.2±0.3
Chesterfield RNFSP	20.0±0.5	1.30±0.03	13.3±0.4

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Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Chesterfield KNFSP	24.2±0.5	1.65±0.04	15.3±0.5
Doral Full Flavor KFSP	17.4±0.2	0.92±0.01	19.6±0.4
Doral Full Flavor 100's 100FSP	14.8±0.2	0.84±0.01	17.2±0.3
Doral Lights KFSP	12.1±0.3	0.67±0.02	14.5±0.4
Doral Menthol Lights KFMSP	11.7±0.2	0.64±0.01	14.0±0.2
Doral Lights 100's 100FSP	11.3±0.3	0.70±0.02	12.9±0.3
Doral Menthol Lights 100's 100FMSP	12.1±0.3	0.73±0.01	13.7±0.3
Doral Ultra Lights 100's 100FSP	6.7±0.3	0.48±0.02	11.7±0.5
English Ovals KNFHP	23.8±0.6	1.87±0.04	15.6±0.5
Eve Slim Lights 100's 100FHP	12.8±0.2	1.03±0.02	11.0±0.2
Eve Slim Lights 100's 100FMHP	12.6±0.3	1.00±0.02	10.8±0.3
Eve Lights 120's 120FHP	13.0±0.4	1.12±0.03	11.6±0.5
Eve Lights 120's 120FMHP	13.5±0.2	1.17±0.02	12.0±0.3
Falcon Lights KFSP	11.2±0.2	0.77±0.02	11.2±0.3
Falcon Lights KFMSP	10.2±0.3	0.78±0.02	11.9±0.4
Falcon Lights 100's 100FSP	12.1±0.2	0.85±0.02	14.8±0.4
Falcon Lights 100's 100FMSP	8.9±0.2	0.73±0.02	11.0±0.3
Harley Davidson KFSP	14.1±0.3	0.98±0.02	16.3±0.4
Herbert Tareyton KNFSP	25.1±0.9	1.58±0.03	17.8±0.4
Kent Golden Lights KFHP	8.8±0.3	0.78±0.02	9.7±0.4
Kent Golden Lights KFSP	8.5±0.2	0.74±0.02	9.6±0.3
Kent Golden Lights KFMSP	8.3±0.3	0.75±0.02	9.1±0.4
Kent Golden Lights 100s 100FHP	10.2±0.2	0.91±0.02	11.2±0.4
Kent Golden Lights 100s 100FSP	9.6±0.3	0.86±0.02	10.5±0.4
Kent Golden Lights 100s 100FMSP	9.3±0.2	0.85±0.02	10.0±0.3
Kent KFHP	11.3±0.2	0.86±0.02	12.9±0.3
Kent KFSP	12.0±0.2	0.88±0.02	13.9±0.3
Kent 100s 100FSP	13.6±0.3	1.02±0.02	14.7±0.4
Kent 100s 100FMSP	14.0±0.2	1.04±0.01	14.4±0.3
Kent III KFSP	3.4±0.2	0.35±0.02	4.3±0.2
Kent III 100s 100FHP	5.0±0.2	0.50±0.03	6.8±0.3
Kent III 100s 100FSP	4.7±0.2	0.45±0.01	6.6±0.3
Kool RNFMS	21.5±0.8	1.36±0.03	14.5±0.2
Kool KFMHP	16.2±0.4	1.12±0.03	16.4±0.4
Kool KFMSP	16.8±0.3	1.14±0.02	16.8±0.3
Kool Super Longs 100's 100FMSP	16.7±0.3	1.25±0.02	17.0±0.3
Kool Lights KFMSP	8.2±0.2	0.69±0.02	9.0±0.2
Kool Lights 100's 100FMSP	8.5±0.2	0.73±0.01	10.0±0.3
Kool Milds KFMHP	11.6±0.3	0.88±0.02	11.3±0.3
Kool Milds KFMSP	12.3±0.3	0.93±0.02	13.1±0.3
Kool Milds 100's 100FMSP	12.0±0.3	0.95±0.02	12.6±0.4
Kool Ultra KFMSP	2.2±0.2	0.21±0.02	2.7±0.2
Kool Ultra 100's 100FMSP	5.0±0.3	0.45±0.02	5.2±0.3
L & M KFSP	13.7±0.2	1.08±0.02	12.9±0.3
L & M Super 100 100FSP	13.9±0.2	1.12±0.02	14.2±0.3
L & M Long Lights 100FSP	7.8±0.2	0.80±0.02	6.3±0.2
L & M 30's Lights 100's 100FSP	12.6±0.3	1.06±0.02	10.7±0.3

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Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Lark KFSP	14.3±0.3	1.11±0.03	13.3±0.3
Lark 100FSP	14.7±0.2	1.22±0.02	14.0±0.2
Lark Lights KFSP.....	13.4±0.3	1.03±0.02	13.3±0.3
Lark Light 100's 100FSP	13.9±0.3	1.15±0.03	14.5±0.5
Lucky Strike RNFSP.....	24.4±0.5	1.52±0.02	16.5±0.3
Lucky Strike KFHP.....	12.1±0.2	0.92±0.02	12.8±0.4
Lucky Strike KFSP.....	11.8±0.3	0.89±0.02	12.6±0.3
Lucky Strike Filters 100's 100FSP	11.9±0.2	0.96±0.02	12.7±0.2
Lucky Strike Menthol 100's 100FMSP	11.8±0.1	0.96±0.02	12.3±0.2
Lucky Strike Lights KFSP	8.4±0.3	0.68±0.02	10.2±0.3
Lucky Strike Lights 100's 100FSP	8.9±0.2	0.74±0.01	10.0±0.3
Magna KFHP	14.1±0.3	0.90±0.01	16.3±0.4
Magna KFSP.....	13.9±0.2	0.91±0.02	14.9±0.2
Magna Lites KFSP.....	9.1±0.2	0.64±0.01	13.7±0.2
Malibu Filters KFSP	16.4±0.3	1.18±0.03	13.6±0.3
Malibu Menthol KFMSP	17.2±0.2	1.24±0.02	14.8±0.2
Malibu 100's 100FSP.....	13.9±0.3	1.10±0.02	13.4±0.3
Malibu Menthol 100's 100FMSP	11.6±0.2	0.94±0.02	12.5±0.3
Malibu Lights KFSP	10.2±0.2	0.79±0.01	10.8±0.3
Malibu Lights 100's 100FSP.....	9.1±0.2	0.75±0.02	10.6±0.4
Marlboro KFHP.....	17.0±0.2	1.14±0.02	15.2±0.3
Marlboro KFSP.....	17.4±0.2	1.17±0.02	16.9±0.4
Marlboro KFMSP.....	16.6±0.3	1.09±0.03	15.6±0.3
Marlboro 100's 100FHP	17.0±0.4	1.22±0.03	16.9±0.6
Marlboro 100's 100FSP	17.1±0.3	1.22±0.02	16.5±0.4
Marlboro 25's KFSP	17.2±0.3	1.13±0.02	15.9±0.3
Marlboro Lights KFHP.....	11.0±0.2	0.82±0.02	12.4±0.3
Marlboro Lights KFMHP.....	10.2±0.2	0.78±0.02	11.2±0.3
Marlboro Lights KFSP	11.2±0.2	0.83±0.02	12.2±0.3
Marlboro Lights KFMSP	9.9±0.2	0.77±0.01	10.4±0.3
Marlboro Lights 100's 100FHP	10.8±0.2	0.85±0.02	12.3±0.3
Marlboro Lights 100's 100FHMP	10.2±0.2	0.81±0.02	11.2±0.4
Marlboro Lights 100's 100FSP	11.0±0.2	0.85±0.02	13.0±0.4
Marlboro Lights 100's 100FMSP	10.9±0.1	0.86±0.01	12.0±0.3
Marlboro Lights 25's KFSP	11.2±0.2	0.80±0.02	12.4±0.3
Marlboro 100's Red 100FHP.....	16.4±0.3	1.19±0.02	16.3±0.4
Marlboro 100's Red 100FSP.....	16.5±0.2	1.19±0.02	17.0±0.2
Max 120s 120FSP	17.1±0.4	1.34±0.03	17.7±0.4
Max 120s 120FMSP	17.2±0.4	1.38±0.03	17.0±0.5
Merit KFHP.....	7.8±0.2	0.60±0.01	9.8±0.2
Merit KFSP.....	7.6±0.2	0.59±0.01	9.8±0.3
Merit KFMSP.....	7.7±0.2	0.58±0.01	10.0±0.3
Merit 100's 100FSP	10.0±0.2	0.80±0.02	11.8±0.3
Merit 100's 100FMSP	10.1±0.2	0.78±0.02	12.0±0.3
Merit Ultra Lights KFSP	4.4±0.2	0.43±0.01	5.5±0.2
Merit Ultra Lights KFMSP.....	4.5±0.1	0.42±0.01	5.9±0.2
Merit Ultra Lights 100's 100FSP.....	5.3±0.1	0.50±0.01	7.4±0.2

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Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Merit Ultra Lights 100's 100FMSP	6.0±0.2	0.53±0.02	8.2±0.3
More 120s 120FSP	16.5±0.4	1.19±0.02	21.5±0.4
More 120s 120FMSP	16.6±0.3	1.28±0.03	22.0±0.5
More Lights 100s 100FHP	10.0±0.2	0.78±0.02	10.7±0.3
More Lights 100s 100FMHP	9.0±0.3	0.69±0.03	10.2±0.3
More Lights 120s 120FSP	12.9±0.2	0.98±0.01	20.2±0.5
More Lights 120s 120FMSP	12.2±0.4	0.99±0.03	19.6±0.5
Newport KFMHP	15.7±0.2	1.17±0.02	16.5±0.3
Newport KFMSP	17.2±0.4	1.26±0.02	18.3±0.5
Newport 100's 100FMHP	19.2±0.2	1.46±0.02	19.4±0.4
Newport 100's 100FMSP	19.3±0.3	1.47±0.03	19.4±0.4
Newport 25's KFMSP	17.2±0.2	1.28±0.02	18.2±0.4
Newport 25's 100FMSP	19.5±0.3	1.48±0.02	19.8±0.3
Newport Lights KFMHP	8.6±0.2	0.73±0.02	9.5±0.3
Newport Lights KFMSP	8.3±0.3	0.75±0.02	9.1±0.3
Newport Lights 100's 100FMHP	9.2±0.3	0.84±0.02	9.9±0.3
Newport Lights 100's 100FMSP	9.0±0.3	0.83±0.02	9.5±0.4
Newport Stripes 100FHP	12.3±0.3	0.94±0.02	16.6±0.4
Newport Stripes 100FMHP	12.2±0.2	0.91±0.02	16.5±0.2
Newport Stripes Slim Lights 100FMHP	9.3±0.2	0.76±0.02	11.4±0.2
Now KFHP	<0.5	<0.05	<0.5
Now KFSP	1.0±0.1	0.14±0.01	2.3±0.1
Now KFMSP	1.1±0.1	0.13±0.01	2.3±0.1
Now 100s 100FHP	<0.5	<0.05	<0.5
Now 100s 100FSP	1.9±0.1	0.21±0.01	3.1±0.2
Now 100s 100FMSP	2.5±0.1	0.26±0.01	4.3±0.2
Old Gold Straights KNFSP	26.9±0.6	1.89±0.05	18.7±0.5
Old Gold Filters KFSP	16.8±0.2	1.24±0.02	18.1±0.3
Old Gold Filter 100's 100FSP	19.7±0.3	1.50±0.03	19.6±0.4
Old Gold Lights KFSP	9.3±0.2	0.81±0.02	10.9±0.3
Old Gold Lights 100s 100FSP	12.3±0.2	0.91±0.02	17.0±0.3
Pall Mall KNFSP	24.9±0.3	1.64±0.02	16.6±0.4
Pall Mall 25's KNFSP	24.7±0.3	1.64±0.03	16.5±0.3
Pall Mall 100's 100FSP	17.0±0.3	1.28±0.02	17.1±0.3
Pall Mall Lights 100's 100FSP	10.3±0.2	0.84±0.02	12.0±0.3
Pall Mall Light 100's Low Tar 100FMSP	13.3±0.2	1.08±0.02	13.1±0.3
Pall Mall Red Filters KFSP	13.6±0.3	1.02±0.02	12.6±0.3
Pall Mall Red Filters 100's 100FSP	13.8±0.3	1.07±0.02	14.0±0.2
Pall Mall Red Lights KFSP	10.3±0.3	0.81±0.02	10.7±0.3
Pall Mall Red Lights 100's 100FSP	11.1±0.2	0.88±0.02	12.2±0.4
Parliament Lights KFHP	9.5±0.2	0.72±0.02	10.3±0.4
Parliament Lights KFSP	9.1±0.2	0.71±0.02	10.4±0.2
Parliament Lights 100's 100FSP	12.0±0.2	0.95±0.02	12.7±0.2
Philip Morris Commander KNFSP	26.3±0.5	1.61±0.03	16.2±0.5
Philip Morris International 100FHP	16.8±0.4	1.15±0.02	15.6±0.4
Philip Morris International 100FMHP	16.9±0.2	1.08±0.02	16.2±0.4
Players RNFHP	25.2±0.4	1.74±0.03	15.9±0.4

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Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Players KFHP	11.7±0.2	0.83±0.02	12.2±0.2
Players KFMHP	11.9±0.2	0.82±0.01	12.3±0.2
Players 100's 100FHP	13.9±0.2	0.98±0.02	12.9±0.3
Players 100's 100FMHP	14.0±0.2	0.98±0.02	12.7±0.3
Players Lights 25's KFSP	10.0±0.2	0.72±0.02	11.1±0.2
Players Lights 25's KFMSP	10.0±0.2	0.71±0.01	11.1±0.4
Players 25's Lights 100's 100FSP	11.9±0.3	0.86±0.02	14.1±0.4
Players 25's Lights 100's 100FMSP	11.4±0.2	0.81±0.01	13.7±0.3
Raleigh KNFSP	23.8±0.5	1.40±0.03	16.6±0.4
Raleigh KFSP	15.5±0.4	0.97±0.03	14.7±0.3
Raleigh 100's 100FSP	15.5±0.3	0.99±0.02	16.0±0.3
Raleigh Lights KFSP	11.4±0.2	0.87±0.02	13.1±0.3
Raleigh Lights 100's 100FSP	12.2±0.3	0.94±0.02	14.3±0.3
Richland 20's KFSP	16.3±0.3	1.13±0.02	16.0±0.3
Richland 20's KFMSP	16.4±0.4	1.05±0.02	16.1±0.3
Richland 20's 100's 100FSP	16.6±0.3	1.23±0.02	17.3±0.4
Richland 20's Menthol 100's 100FMSP	16.7±0.3	1.15±0.02	17.1±0.3
Richland 20's Lights KFSP	11.7±0.3	0.90±0.02	13.5±0.3
Richland 20's Lights 100's 100FSP	12.1±0.2	0.90±0.02	14.2±0.4
Richland (25) KFSP	16.6±0.2	1.18±0.02	15.8±0.2
Richland (25) KFMSP	16.2±0.3	1.09±0.02	15.6±0.3
Richland 100's (25) 100FSP	17.0±0.3	1.28±0.02	17.3±0.4
Richland 100's (25) 100FMSP	16.0±0.3	1.16±0.02	16.3±0.4
Richland Lights (25) KFSP	11.5±0.2	0.89±0.02	12.7±0.3
Richland Lights (25) 100's 100FSP	12.4±0.2	0.94±0.02	14.0±0.2
Ritz 100 100FHP	10.4±0.3	0.78±0.02	11.5±0.4
Ritz 100 100FMHP	11.1±0.3	0.81±0.02	11.5±0.3
Salem KFMSP	15.9±0.3	1.04±0.02	16.7±0.3
Salem 100's 100FMSP	16.8±0.3	1.19±0.02	16.1±0.3
Salem Lights KFMSP	9.8±0.2	0.72±0.02	12.6±0.2
Salem Lights 100's 100FMHP	11.3±0.2	0.86±0.02	11.6±0.2
Salem Lights 100's 100FMSP	9.3±0.3	0.74±0.02	11.1±0.4
Salem Slim Lights 100's 100FMHP	9.5±0.2	0.77±0.02	10.2±0.3
Salem Ultra Lights KFMSP	4.9±0.1	0.43±0.01	7.7±0.2
Salem Ultra Lights 100's 100FMSP	5.1±0.1	0.45±0.01	8.0±0.2
Saratoga 120's 120FHP	14.7±0.2	1.07±0.02	14.8±0.3
Saratoga 120's 120FMHP	14.7±0.3	1.07±0.02	14.8±0.4
Satin 100FSP	11.4±0.3	0.97±0.02	13.1±0.4
Satin 100FMSP	11.4±0.3	0.97±0.02	13.3±0.4
Silva Thins Filters 100FHP	12.2±0.2	0.97±0.02	12.5±0.3
Silva Thins Menthol 100FMHP	11.1±0.2	0.90±0.01	11.7±0.3
Silva Thins 100FSP	11.7±0.2	0.98±0.02	10.0±0.2
Silva Thins Menthol 100FMSP	12.3±0.3	1.05±0.02	10.5±0.3
Spring 100's 100FMSP	19.3±0.2	1.49±0.03	19.0±0.2
Tall 120s 120FSP	20.4±0.3	1.64±0.03	20.2±0.4
Tall 120s 120FMSP	18.0±0.3	1.57±0.03	16.5±0.5
Tareyton KFSP	14.3±0.3	0.98±0.02	15.9±0.3

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Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Tareyton 100's 100FSP	14.1±0.2	1.02±0.02	16.8±0.4
Tareyton Lights KFSP	5.2±0.2	0.44±0.01	6.0±0.2
Tareyton Long Lights 100FSP	8.1±0.2	0.68±0.01	8.8±0.3
Triumph KFSP	3.1±0.1	0.32±0.02	3.8±0.2
Triumph KFMSP	3.5±0.2	0.34±0.02	4.3±0.2
Triumph 100s 100FSP	5.3±0.3	0.50±0.02	7.4±0.4
Triumph 100s 100FMSP	5.4±0.2	0.52±0.01	7.5±0.2
True KFSP	5.1±0.2	0.48±0.02	6.4±0.3
True KFMSP	4.9±0.3	0.46±0.02	6.1±0.4
True 100's 100FSP	6.7±0.3	0.61±0.02	7.4±0.4
True 100's 100FMSP	6.7±0.4	0.61±0.03	7.3±0.5
Vantage KFSP	10.5±0.2	0.75±0.02	13.5±0.3
Vantage KFMSP	10.0±0.2	0.69±0.01	12.5±0.3
Vantage 100s 100FSP	8.8±0.2	0.63±0.02	12.5±0.3
Vantage Menthol 100s 100FMSP	8.3±0.2	0.61±0.01	12.7±0.3
Vantage Ultra Lights KFSP	5.5±0.1	0.47±0.01	8.0±0.2
Vantage Ultra Lights 100s 100FSP	5.8±0.1	0.50±0.01	9.5±0.2
Viccroys KFSP	15.3±0.3	0.97±0.02	14.5±0.3
Viceroy Super Long 100's 100FSP	15.9±0.3	1.14±0.02	15.1±0.3
Viceroy Lights KFSP	11.3±0.3	0.88±0.02	13.1±0.3
Viceroy Lights 100's 100FSP	11.9±0.2	0.92±0.02	14.1±0.3
Virginia Slims 100FSP	15.3±0.2	1.07±0.02	13.8±0.3
Virginia Slims 100FMSP	15.1±0.3	1.06±0.03	13.9±0.3
Virginia Slims Lights 100FHP	8.8±0.2	0.70±0.02	9.3±0.3
Virginia Slims Lights 100FMHP	8.5±0.2	0.69±0.02	9.2±0.2
Virginia Slims Lights 120's 120FHP	14.5±0.2	1.07±0.02	14.9±0.3
Virginia Slims Lights 120's 120FMHP	14.7±0.3	1.08±0.02	14.8±0.4
Winston KFHP	16.8±0.3	1.06±0.02	16.9±0.3
Winston KFSP	17.1±0.3	1.13±0.02	16.3±0.2
Winston 100's 100FSP	16.9±0.2	1.06±0.02	18.6±0.3
Winston Lights KFHP	9.7±0.2	0.63±0.01	11.7±0.3
Winston Lights KFSP	10.7±0.2	0.75±0.01	13.2±0.3
Winston Lights 100's 100FHP	9.9±0.2	0.72±0.02	11.8±0.3
Winston Lights 100's 100FSP	11.4±0.2	0.81±0.01	13.4±0.3
Winston Ultra Lights KFSP	5.5±0.2	0.46±0.01	8.5±0.2
Winston Ultra Lights 100's 100FSP	5.3±0.2	0.47±0.02	9.0±0.3
Craven "A" KFHP	15.8±0.4	1.15±0.02	16.3±0.4
Craven "A" Filter Standard Size RFHP	18.6±0.4	1.51±0.03	13.6±0.3
Dunhill International 100FHP	15.2±0.3	1.39±0.03	17.6±0.3
Dunhill Menthol 100FMHP	14.2±0.3	1.19±0.02	17.0±0.4
Dunhill Menthol Mild 100FMHP	10.4±0.2	0.96±0.02	12.5±0.2
Dunhill Int Superior Mild 100FHP	8.4±0.2	0.73±0.01	10.5±0.2
Rothmans KFHP	19.4±0.4	1.34±0.02	22.5±0.7
Rothmans Special Mild KFHP	13.6±0.2	1.03±0.02	15.5±0.4
St. Moritz Filter 100s 100FSP	14.9±0.2	1.08±0.02	15.5±0.2
St. Moritz Menthol 100FMSP	14.9±0.3	0.96±0.01	17.1±0.4

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Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Alpine KFMSP	17	1.1	15
American Lights KFSP	12	0.9	13
American Lights 100's 100FSP	13	1.1	14
Belair KFMSP	11	0.8	10
Belair 100's 100FMSP	9	0.7	9
Benson & Hedges KFHP	15	1.3	13
Benson & Hedges 100's 100FHP	17	1.2	17
Benson & Hedges 100's 100FMHP	17	1.2	16
Benson & Hedges 100's 100FSP	17	1.2	16
Benson & Hedges 100's 100FMSP	17	1.2	16
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	5	0.4	6
Benson & Hedges Deluxe Ultra Lights 100's 100FMHP	5	0.5	6
Benson & Hedges Lights 100's 100FSP	11	0.8	13
Benson & Hedges Lights 100's 100FMSP	11	0.8	12
Benson & Hedges Multifilter KFSP	11	0.8	11
Bright 100's 100FMSP	6	0.4	10
Cambridge Full Flavor KFSP	17	1.1	16
Cambridge Full Flavor 100's 100FSP	17	1.2	16
Cambridge Lights KFSP	12	0.8	13
Cambridge Lights KFMSP	12	0.8	12
Cambridge Lights 100's 100FSP	12	0.9	15
Cambridge Lights 100's 100FMSP	12	0.9	15
Cambridge Ultra Low Tar 100's 100FSP	5	0.4	7
Camel RNFSP	22	1.4	14
Camel Filters KFHP	17	1.1	17
Camel Filters KFSP	16	1.0	15
Camel Filters 100's 100FSP	18	1.1	19
Camel Lights KFHP	10	0.6	12
Camel Lights KFSP	9	0.6	11
Camel Lights 100's 100FSP	11	0.8	15
Capri 100FHP	9	0.8	6
Capri 100FMHP	9	0.7	6
Carlton KFHP	<0.5	<0.05	<0.5
Carlton KFSP	1	0.1	2
Carlton KFMSP	1	0.1	1
Carlton 100's 100FHP	1	0.1	1
Carlton 100's 100FMHP	1	0.1	1
Carlton 100's 100FSP	3	0.3	5
Carlton 100's 100FMSP	5	0.4	6
Carlton 120's 120FSP	6	0.6	6
Carlton 120's 120FMSP	6	0.6	5
Century 25's (25) KFSP	15	1.0	18
Century 25's 100's 100FSP	18	1.1	21
Century 25's Lights (25) KFSP	10	0.7	12
Century 25's Lights 100's 100FSP	12	0.9	13
Century 25's Menthol Lights 100's 100FMSP	11	0.8	13
Chesterfield RNFSP	20	1.3	13

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Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Chesterfield KNFSP	24	1.6	15
Doral Full Flavor KFSP	17	0.9	20
Doral Full Flavor 100's 100FSP	15	0.8	17
Doral Lights KFSP	12	0.7	15
Doral Menthol Lights KFMSP	12	0.6	14
Doral Lights 100's 100FSP	11	0.7	13
Doral Menthol Lights 100's 100FMSP	12	0.7	14
Doral Ultra Lights 100's 100FSP	7	0.5	12
English Ovals KNFHP	24	1.9	16
Eve Slim Lights 100's 100FHP	13	1.0	11
Eve Slim Lights 100's 100FMHP	13	1.0	11
Eve Lights 120's 120FHP	13	1.1	12
Eve Lights 120's 120FMHP	13	1.2	12
Falcon Lights KFSP	11	0.8	11
Falcon Lights KFMSP	10	0.8	12
Falcon Lights 100's 100FSP	12	0.9	15
Falcon Lights 100's 100FMSP	9	0.7	11
Harley Davidson KFSP	14	1.0	16
Herbert Tareyton KNFSP	25	1.6	18
Kent Golden Lights KFHP	9	0.8	10
Kent Golden Lights KFSP	8	0.7	10
Kent Golden Lights KFMSP	8	0.8	9
Kent Golden Lights 100s 100FHP	10	0.9	11
Kent Golden Lights 100s 100FSP	10	0.9	11
Kent Golden Lights 100s 100FMSP	9	0.8	10
Kent KFHP	11	0.9	13
Kent KFSP	12	0.9	14
Kent 100s 100FSP	14	1.0	15
Kent 100s 100FMSP	14	1.0	14
Kent III KFSP	3	0.3	4
Kent III 100s 100FHP	5	0.5	7
Kent III 100s 100FSP	5	0.4	7
Kool RNFMSMSP	21	1.4	14
Kool KFMHP	16	1.1	16
Kool KFMSP	17	1.1	17
Kool Super Longs 100's 100FMSP	17	1.2	17
Kool Lights KFMSP	8	0.7	9
Kool Lights 100's 100FMSP	9	0.7	10
Kool Milds KFMHP	12	0.9	11
Kool Milds KFMSP	12	0.9	13
Kool Milds 100's 100FMSP	12	1.0	13
Kool Ultra KFMSP	2	0.2	3
Kool Ultra 100's 100FMSP	5	0.4	5
L & M KFSP	14	1.1	13
L & M Super 100 100FSP	14	1.1	14
L & M Long Lights 100FSP	8	0.8	6
L & M 30's Lights 100's 100FSP	13	1.1	11

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Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Lark KFSP	14	1.1	13
Lark 100FSP	15	1.2	14
Lark Lights KFSP.....	13	1.0	13
Lark Light 100's 100FSP	14	1.1	15
Lucky Strike RNFSP.....	24	1.5	16
Lucky Strike KFHP.....	12	0.9	13
Lucky Strike KFSP.....	12	0.9	13
Lucky Strike Filters 100's 100FSP.....	12	1.0	13
Lucky Strike Menthol 100's 100FMSP	12	1.0	12
Lucky Strike Lights KFSP.....	8	0.7	10
Lucky Strike Lights 100's 100FSP	9	0.7	10
Magna KFHP	14	0.9	16
Magna KFSP.....	14	0.9	15
Magna Lites KFSP.....	9	0.6	14
Malibu Filters KFSP.....	16	1.2	14
Malibu Menthol KFMSP	17	1.2	15
Malibu 100's 100FSP.....	14	1.1	13
Malibu Menthol 100's 100FMSP.....	12	0.9	13
Malibu Lights KFSP	10	0.8	11
Malibu Lights 100's 100FSP.....	9	0.8	11
Marlboro KFHP.....	17	1.1	15
Marlboro KFSP.....	17	1.2	17
Marlboro KFMSP	17	1.1	16
Marlboro 100's 100FHP	17	1.2	17
Marlboro 100's 100FSP	17	1.2	16
Marlboro 25's KFSP	17	1.1	16
Marlboro Lights KFHP	11	0.8	12
Marlboro Lights KFMHP	10	0.8	11
Marlboro Lights KFSP	11	0.8	12
Marlboro Lights KFMSP	10	0.8	10
Marlboro Lights 100's 100FHP	11	0.8	12
Marlboro Lights 100's 100FHMP	10	0.8	11
Marlboro Lights 100's 100FSP	11	0.8	13
Marlboro Lights 100's 100FMSP	11	0.9	12
Marlboro Lights 25's KFSP	11	0.8	12
Marlboro 100's Red 100FHP.....	16	1.2	16
Marlboro 100's Red 100FSP.....	17	1.2	17
Max 120s 120FSP	17	1.3	18
Max 120s 120FMSP	17	1.4	17
Merit KFHP.....	8	0.6	10
Merit KFSP.....	8	0.6	10
Merit KFMSP.....	8	0.6	10
Merit 100's 100FSP	10	0.8	12
Merit 100's 100FMSP	10	0.8	12
Merit Ultra Lights KFSP	4	0.4	6
Merit Ultra Lights KFMSP.....	5	0.4	6
Merit Ultra Lights 100's 100FSP.....	5	0.5	7

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Test Results - Rounded Values

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Merit Ultra Lights 100's 100FMSP	6	0.5	8
More 120s 120FSP	16	1.2	22
More 120s 120FMSP	17	1.3	22
More Lights 100s 100FHP	10	0.8	11
More Lights 100s 100FMHP	9	0.7	10
More Lights 120s 120FSP	13	1.0	20
More Lights 120s 120FMSP	12	1.0	20
Newport KFMHP	16	1.2	16
Newport KFMSP	17	1.3	18
Newport 100's 100FMHP	19	1.5	19
Newport 100's 100FMSP	19	1.5	19
Newport 25's KFMSP	17	1.3	18
Newport 25's 100FMSP	19	1.5	20
Newport Lights KFMHP	9	0.7	10
Newport Lights KFMSP	8	0.7	9
Newport Lights 100's 100FMHP	9	0.8	10
Newport Lights 100's 100FMSP	9	0.8	10
Newport Stripes 100FHP	12	0.9	17
Newport Stripes 100FMHP	12	0.9	16
Newport Stripes Slim Lights 100FMHP	9	0.8	11
Now KFHP	<0.5	<0.05	<0.5
Now KFSP	1	0.1	2
Now KFMSP	1	0.1	2
Now 100s 100FHP	<0.5	<0.05	<0.50
Now 100s 100FSP	2	0.2	3
Now 100s 100FMSP	2	0.3	4
Old Gold Straights KNFSP	27	1.9	19
Old Gold Filters KFSP	17	1.2	18
Old Gold Filter 100's 100FSP	20	1.5	20
Old Gold Lights KFSP	9	0.8	11
Old Gold Lights 100s 100FSP	12	0.9	17
Pall Mall KNFSP	25	1.6	17
Pall Mall 25's KNFSP	25	1.6	17
Pall Mall 100's 100FSP	17	1.3	17
Pall Mall Lights 100's 100FSP	10	0.8	12
Pall Mall Light 100's Low Tar 100FMSP	13	1.1	13
Pall Mall Red Filters KFSP	14	1.0	13
Pall Mall Red Filters 100's 100FSP	14	1.1	14
Pall Mall Red Lights KFSP	10	0.8	11
Pall Mall Red Lights 100's 100FSP	11	0.9	12
Parliament Lights KFHP	9	0.7	10
Parliament Lights KFSP	9	0.7	10
Parliament Lights 100's 100FSP	12	0.9	13
Philip Morris Commander KNFSP	26	1.6	16
Philip Morris International 100FHP	17	1.1	16
Philip Morris International 100FMHP	17	1.1	16
Players RNFHP	25	1.7	16

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Test Results - Rounded Values

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Players KFHP	12	0.8	12
Players KFMHP	12	0.8	12
Players 100's 100FHP	14	1.0	13
Players 100's 100FMHP	14	1.0	13
Players Lights 25's KFSP	10	0.7	11
Players Lights 25's KFMSP	10	0.7	11
Players 25's Lights 100's 100FSP	12	0.9	14
Players 25's Lights 100's 100FMSP	11	0.8	14
Raleigh KNFSP	24	1.4	17
Raleigh KFSP	16	1.0	15
Raleigh 100's 100FSP	16	1.0	16
Raleigh Lights KFSP	11	0.9	13
Raleigh Lights 100's 100FSP	12	0.9	14
Richland 20's KFSP	16	1.1	16
Richland 20's KFMSP	16	1.0	16
Richland 20's 100's 100FSP	17	1.2	17
Richland 20's Menthol 100's 100FMSP	17	1.2	17
Richland 20's Lights KFSP	12	0.9	13
Richland 20's Lights 100's 100FSP	12	0.9	14
Richland (25) KFSP	17	1.2	16
Richland (25) KFMSP	16	1.1	16
Richland 100's (25) 100FSP	17	1.3	17
Richland 100's (25) 100FMSP	16	1.2	16
Richland Lights (25) KFSP	12	0.9	13
Richland Lights (25) 100's 100FSP	12	0.9	14
Ritz 100 100FHP	10	0.8	11
Ritz 100 100FMHP	11	0.8	12
Salem KFMSP	16	1.0	17
Salem 100's 100FMSP	17	1.2	16
Salem Lights KFMSP	10	0.7	13
Salem Lights 100's 100FMHP	11	0.9	12
Salem Lights 100's 100FMSP	9	0.7	11
Salem Slim Lights 100's 100FMHP	10	0.8	10
Salem Ultra Lights KFMSP	5	0.4	8
Salem Ultra Lights 100's 100FMSP	5	0.4	8
Saratoga 120's 120FHP	15	1.1	15
Saratoga 120's 120FMHP	15	1.1	15
Satin 100FSP	11	1.0	13
Satin 100FMSP	11	1.0	13
Silva Thins Filters 100FHP	12	1.0	13
Silva Thins Menthol 100FMHP	11	0.9	12
Silva Thins 100FSP	12	1.0	10
Silva Thins Menthol 100FMSP	12	1.1	10
Spring 100's 100FMSP	19	1.5	19
Tall 120s 120FSP	20	1.6	20
Tall 120s 120FMSP	18	1.6	16
Tareyton KFSP	14	1.0	16

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Test Results - Rounded Values

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Tareyton 100's 100FSP	14	1.0	17
Tareyton Lights KFSP	5	0.4	6
Tareyton Long Lights 100FSP	8	0.7	9
Triumph KFSP	3	0.3	4
Triumph KFMSP	4	0.3	4
Triumph 100s 100FSP	5	0.5	7
Triumph 100s 100FMSP	5	0.5	8
True KFSP	5	0.5	6
True KFMSP	5	0.5	6
True 100's 100FSP	7	0.6	7
True 100's 100FMSP	7	0.6	7
Vantage KFSP	11	0.8	13
Vantage KFMSP	10	0.7	13
Vantage 100s 100FSP	9	0.6	13
Vantage Menthol 100s 100FMSP	8	0.6	13
Vantage Ultra Lights KFSP	6	0.5	8
Vantage Ultra Lights 100s 100FSP	6	0.5	9
Viceroy KFSP	15	1.0	15
Viceroy Super Long 100's 100FSP	16	1.1	15
Viceroy Lights KFSP	11	0.9	13
Viceroy Lights 100's 100FSP	12	0.9	14
Virginia Slims 100FSP	15	1.1	14
Virginia Slims 100FMSP	15	1.1	14
Virginia Slims Lights 100FHP	9	0.7	9
Virginia Slims Lights 100FMHP	9	0.7	9
Virginia Slims Lights 120's 120FHP	15	1.1	15
Virginia Slims Lights 120's 120FMHP	15	1.1	15
Winston KFHP	17	1.1	17
Winston KFSP	17	1.1	16
Winston 100's 100FSP	17	1.1	19
Winston Lights KFHP	10	0.6	12
Winston Lights KFSP	11	0.8	13
Winston Lights 100's 100FHP	10	0.7	12
Winston Lights 100's 100FSP	11	0.8	13
Winston Ultra Lights KFSP	5	0.5	8
Winston Ultra Lights 100's 100FSP	5	0.5	9
Craven "A" KFHP	16	1.2	16
Craven "A" Filter Standard Size RFHP	19	1.5	14
Dunhill International 100FHP	15	1.4	18
Dunhill Menthol 100FMHP	14	1.2	17
Dunhill Menthol Mild 100FMHP	10	1.0	13
Dunhill Int Superior Mild 100FHP	8	0.7	10
Rothmans KFHP	19	1.3	23
Rothmans Special Mild KFHP	14	1.0	16
St. Moritz Filter 100s 100FSP	15	1.1	16
St. Moritz Menthol 100FMSP	15	1.0	17

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Appendix A

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Market Sample 31
Test Results - American Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
9/88 American Lights KFSP.....	11.9±0.2 11.9	0.91±0.02 0.89	12.9±0.3 12.4
9/88 American Lights 100's 100FSP.....	13.3±0.2 11.0	1.08±0.01 0.87	13.9±0.2 10.7
• Carlton KFHP.....	< 0.5 0.0	< 0.05 0.00	< 0.5 0.00
Carlton KFSP.....	1.3±0.1 2.0	0.15±0.01 0.17	2.4±0.1 2.0
Carlton KFMSP.....	0.6±0.1 1.2	0.09±0.01 0.09	1.4±0.1 1.4
Carlton 100's 100FHP.....	0.7±0.1 1.4	0.10±0.01 0.08	1.1±0.1 0.8
Carlton 100's 100FMHP.....	0.6±0.1 1.5	0.10±0.01 0.10	1.0±0.1 0.7
Carlton 100's 100FSP.....	3.4±0.1 3.7	0.35±0.01 0.33	4.6±0.2 4.0
Carlton 100's 100FMSP.....	4.5±0.1 5.1	0.42±0.01 0.40	6.4±0.2 5.9
Carlton 120's 120FSP.....	6.5±0.2 5.8	0.62±0.02 0.52	5.6±0.2 4.4
Carlton 120's 120FMSP.....	6.2±0.2 6.1	0.62±0.03 0.57	5.5±0.2 4.6
Herbert Tareyton KNFSP.....	25.1±0.9 21.9	1.58±0.03 1.43	17.8±0.4 14.2
Lucky Strike RNFSP.....	24.4±0.5 23.1	1.52±0.02 1.49	16.5±0.3 14.9
Lucky Strike KFHP.....	12.1±0.2 10.7	0.92±0.02 0.85	12.8±0.4 11.9
Lucky Strike KFSP.....	11.8±0.3 11.5	0.89±0.02 0.90	12.6±0.3 11.5
Lucky Strike Filters 100's 100FSP.....	11.9±0.2 10.9	0.96±0.02 0.90	12.7±0.2 10.6
Lucky Strike Menthol 100's 100FMSP.....	11.8±0.1 11.0	0.96±0.02 0.93	12.3±0.2 11.4
Lucky Strike Lights KFSP.....	8.4±0.3 7.6	0.68±0.02 0.64	10.2±0.3 7.3
Lucky Strike Lights 100's 100FSP.....	8.9±0.2 9.2	0.74±0.01 0.76	10.0±0.3 8.8
7/88 Malibu Filters KFSP.....	16.4±0.3 16.8	1.18±0.03 1.21	13.6±0.3 12.5
9/88 Malibu Menthol KFMSP.....	17.2±0.2 15.5	1.24±0.02 1.17	14.8±0.2 11.6
Malibu 100's 100FSP.....	13.9±0.3 10.8	1.10±0.02 0.95	13.4±0.3 9.1
Malibu Menthol 100's 100FMSP.....	11.6±0.2 11.5	0.94±0.02 0.97	12.5±0.3 10.8
9/88 Malibu Lights KFSP.....	10.2±0.2 9.1	0.79±0.01 0.74	10.8±0.3 8.4
Malibu Lights 100's 100FSP.....	9.1±0.2 9.3	0.75±0.02 0.81	10.6±0.4 10.7
Pall Mall KNFSP.....	24.9±0.3 22.2	1.64±0.02 1.51	16.6±0.4 14.1
• Pall Mall 25's KNFSP.....	24.7±0.3	1.64±0.03	16.5±0.3
Pall Mall 100's 100FSP.....	17.0±0.3 16.1	1.28±0.02 1.22	17.1±0.3 15.4
Pall Mall Lights 100's 100FSP.....	10.3±0.2 9.4	0.84±0.02 0.77	12.0±0.3 12.6
• Pall Mall Light 100's Low Tar 100FMSP.....	13.3±0.2	1.08±0.02	13.1±0.3
Pall Mall Red Filters KFSP.....	13.6±0.3 13.0	1.02±0.02 0.99	12.6±0.3 11.9
• Pall Mall Red Filters 100's 100FSP.....	13.8±0.3	1.07±0.02	14.0±0.2
• Pall Mall Red Lights KFSP.....	10.3±0.3	0.81±0.02	10.7±0.3
• Pall Mall Red Lights 100's 100FSP.....	11.1±0.2	0.88±0.02	12.2±0.4
Silva Thins Filters 100FHP.....	12.2±0.2 10.8	0.97±0.02 0.87	12.5±0.3 9.1
Silva Thins Menthol 100FMHP.....	11.1±0.2 11.4	0.90±0.01 0.97	11.7±0.3 10.0
Silva Thins 100FSP.....	11.7±0.2 10.8	0.98±0.02 0.87	10.0±0.2 9.7
12/87 Silva Thins Menthol 100FMSP.....	12.3±0.3 11.4	1.05±0.02 0.97	10.5±0.3 10.4
Tall 120s 120FSP.....	20.4±0.3 19.0	1.64±0.03 1.55	20.2±0.4 17.7
Tall 120s 120FMSP.....	18.0±0.3 17.2	1.57±0.03 1.50	16.5±0.5 17.1
Tareyton KFSP.....	14.3±0.3 13.5	0.98±0.02 1.01	15.9±0.3 14.9
Tareyton 100's 100FSP.....	14.1±0.2 12.7	1.02±0.02 0.96	16.8±0.4 15.6
Tareyton Lights KFSP.....	5.2±0.2 4.9	0.44±0.01 0.40	6.0±0.2 4.8
Tareyton Long Lights 100FSP.....	8.1±0.2 8.4	0.68±0.01 0.69	8.8±0.3 8.8

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Tobacco Institute Testing Laboratory
Market Sample 31
Test Results - Brown & Williamson Brands

Brand	Tar mg/cig	Nicotine mg/cig	CO mg/cig
Belair KFMSP	10.7±0.2 10.2	0.84±0.01 0.81	9.8±0.2 8.9
Belair 100's 100FMSP	8.8±0.2 8.4	0.67±0.02 0.62	9.1±0.2 7.8
Capri 100FHP	9.2±0.2 8.5	0.78±0.02 0.72	6.4±0.2 5.9
Capri 100FMHP	8.9±0.2 9.1	0.73±0.02 0.62	6.0±0.2 4.3
6/87 Falcon Lights KFSP	11.2±0.2 10.7	0.77±0.02 0.73	11.2±0.3 10.6
12/87 Falcon Lights KFMSP	10.2±0.3 9.5	0.78±0.02 0.76	11.9±0.4 11.2
12/87 Falcon Lights 100's 100FSP	12.1±0.2 11.6	0.85±0.02 0.83	14.8±0.4 13.9
6/87 Falcon Lights 100's 100FMSP	8.9±0.2 8.3	0.73±0.02 0.64	11.0±0.3 9.9
Kool RNFMSF	21.5±0.8 19.5	1.36±0.03 1.26	14.5±0.2 14.4
Kool KFMHP	16.2±0.4 14.4	1.12±0.03 1.01	16.4±0.4 15.6
Kool KFMSP	16.8±0.3 15.7	1.14±0.02 1.10	16.8±0.3 15.1
Kool Super Longs 100's 100FMSP	16.7±0.3 15.5	1.25±0.02 1.15	17.0±0.3 16.0
Kool Lights KFMSP	8.2±0.2 7.7	0.69±0.02 0.65	9.0±0.2 8.6
Kool Lights 100's 100FMSP	8.5±0.2 8.6	0.73±0.01 0.73	10.0±0.3 9.7
Kool Milds KFMHP	11.6±0.3 10.5	0.88±0.02 0.80	11.3±0.3 10.5
Kool Milds KFMSP	12.3±0.3 11.3	0.93±0.02 0.86	13.1±0.3 12.0
Kool Milds 100's 100FMSP	12.0±0.3 11.1	0.95±0.02 0.88	12.6±0.4 12.2
● Kool Ultra KFMSP	2.2±0.2 *	0.21±0.02 *	2.7±0.2 *
● Kool Ultra 100's 100FMSP	5.0±0.3 *	0.45±0.02 *	5.2±0.3 *
Raleigh KNFSP	23.8±0.5 21.0	1.40±0.03 1.30	16.6±0.4 16.7
Raleigh KFSP	15.5±0.4 14.0	0.97±0.03 0.89	14.7±0.3 13.6
Raleigh 100's 100FSP	15.5±0.3 14.3	0.99±0.02 0.92	16.0±0.3 14.5
Raleigh Lights KFSP	11.4±0.2 10.5	0.87±0.02 0.86	13.1±0.3 12.1
Raleigh Lights 100's 100FSP	12.2±0.3 11.5	0.94±0.02 0.88	14.3±0.3 13.2
10/87 Richland 20's KFSP	16.3±0.3 16.3	1.13±0.02 1.17	16.0±0.3 15.1
6/88 Richland 20's KFMSP	16.4±0.4 14.5	1.05±0.02 0.95	16.1±0.3 13.3
7/88 Richland 20's 100's 100FSP	16.6±0.3 15.8	1.23±0.02 1.22	17.3±0.4 15.6
● Richland 20's Menthol 100's 100FMSP	16.7±0.3	1.15±0.02	17.1±0.3
● Richland 20's Lights KFSP	11.7±0.3	0.90±0.02	13.5±0.3
8/84 Richland 20's Lights 100's 100FSP	12.1±0.2 10.9	0.90±0.02 0.84	14.2±0.4 14.2
Richland (25) KFSP	16.6±0.2 15.3	1.18±0.02 1.14	15.8±0.2 14.9
Richland (25) KFMSP	16.2±0.3 14.8	1.09±0.02 1.05	15.6±0.3 15.2
11/87 Richland 100's (25) 100FSP	17.0±0.3 16.5	1.28±0.02 1.23	17.3±0.4 15.0
● Richland 100's (25) 100FMSP	16.0±0.3	1.16±0.02	16.3±0.4
Richland Lights (25) KFSP	11.5±0.2 11.4	0.89±0.02 0.90	12.7±0.3 12.2
Richland Lights (25) 100's 100FSP	12.4±0.2 11.7	0.94±0.02 0.91	14.0±0.2 13.7
Viceroy KFSP	15.3±0.3 14.2	0.97±0.02 0.94	14.5±0.3 13.1
Viceroy Super Long 100's 100FSP	15.9±0.3 15.2	1.14±0.02 1.08	15.1±0.3 13.4
Viceroy Lights KFSP	11.3±0.3 10.6	0.88±0.02 0.85	13.1±0.3 11.2
Viceroy Lights 100's 100FSP	11.9±0.2 11.5	0.92±0.02 0.89	14.1±0.3 12.6

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Tobacco Institute Testing Laboratory
Market Sample 31
Test Results - Liggett & Myers Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Chesterfield RNFSP	20.0±0.5 17.4	1.30±0.03 1.19	13.3±0.4 13.3
Chesterfield KNFSP	24.2±0.5 23.3	1.65±0.04 1.57	15.3±0.5 13.6
Eve Slim Lights 100's 100FHP	12.8±0.2 11.7	1.03±0.02 0.95	11.0±0.2 10.7
Eve Slim Lights 100's 100FMHP	12.6±0.3 11.7	1.00±0.02 0.93	10.8±0.3 10.1
Eve Lights 120's 120FHP	13.0±0.4 12.7	1.12±0.03 1.10	11.6±0.5 10.6
Eve Lights 120's 120FMHP	13.5±0.2 13.3	1.17±0.02 1.11	12.0±0.3 10.8
L & M KFSP	13.7±0.2 12.4	1.08±0.02 1.06	12.9±0.3 12.2
L & M Super 100 100FSP	13.9±0.2 12.8	1.12±0.02 1.00	14.2±0.3 13.1
7/94 L & M Long Lights 100FSP	7.8±0.2 8.1	0.80±0.02 0.75	6.3±0.2 4.7
● L & M 30's Lights 100's 100FSP	12.6±0.3	1.06±0.02	10.7±0.3
Lark KFSP	14.3±0.3 12.7	1.11±0.03 0.98	13.3±0.3 13.2
Lark 100FSP	14.7±0.2 13.4	1.22±0.02 1.06	14.0±0.2 14.3
Lark Lights KFSP	13.4±0.3 12.4	1.03±0.02 0.98	13.3±0.3 12.0
Lark Light 100's 100FSP	13.9±0.3 12.8	1.15±0.03 1.04	14.5±0.5 14.3

Tobacco Institute Testing Laboratory
Market Sample 31
Test Results - Lorillard Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
● Harley Davidson KFSP	14.1±0.3	0.98±0.02	16.3±0.4
Kent Golden Lights KFHP	8.8±0.3 8.4	0.78±0.02 0.77	9.7±0.4 8.5
Kent Golden Lights KFSP	8.5±0.2 8.4	0.74±0.02 0.71	9.6±0.3 9.6
Kent Golden Lights KFMSF	8.3±0.3 7.9	0.75±0.02 0.69	9.1±0.4 8.6
Kent Golden Lights 100s 100FHP	10.2±0.2 9.0	0.91±0.02 0.81	11.2±0.4 8.9
Kent Golden Lights 100s 100FSP	9.6±0.3 9.5	0.86±0.02 0.87	10.5±0.4 9.5
Kent Golden Lights 100s 100FMSP	9.3±0.2 9.9	0.85±0.02 0.88	10.0±0.3 9.8
Kent KFHP	11.3±0.2 10.6	0.86±0.02 0.79	12.9±0.3 11.7
Kent KFSP	12.0±0.2 11.8	0.88±0.02 0.87	13.9±0.3 12.7
Kent 100s 100FSP	13.6±0.3 12.4	1.02±0.02 0.92	14.7±0.4 12.7
Kent 100s 100FMSP	14.0±0.2 13.8	1.04±0.01 1.08	14.4±0.3 14.0
Kent III KFSP	3.4±0.2 3.7	0.35±0.02 0.32	4.3±0.2 2.8
Kent III 100s 100FHP	5.0±0.2 6.0	0.50±0.03 0.53	6.8±0.3 6.6
Kent III 100s 100FSP	4.7±0.2 5.2	0.45±0.01 0.48	6.6±0.3 5.7
Max 120s 120FSP	17.1±0.4 16.3	1.34±0.03 1.38	17.7±0.4 15.8
Max 120s 120FMSP	17.2±0.4 16.3	1.38±0.03 1.37	17.0±0.5 15.6
Newport KFMHP	15.7±0.2 14.6	1.17±0.02 1.15	16.5±0.3 16.2
Newport KFMSF	17.2±0.4 16.3	1.26±0.02 1.22	18.3±0.5 17.2
1/88 Newport 100's 100FMHP	19.2±0.2 18.2	1.46±0.02 1.45	19.4±0.4 18.0
Newport 100's 100FMSP	19.3±0.3 17.6	1.47±0.03 1.38	19.4±0.4 18.7
Newport 25's KFMSF	17.2±0.2 15.7	1.28±0.02 1.22	18.2±0.4 17.0
Newport 25's 100FMSP	19.5±0.3 17.9	1.48±0.02 1.36	19.8±0.3 18.1
Newport Lights KFMHP	8.6±0.2 8.3	0.73±0.02 0.74	9.5±0.3 8.0
Newport Lights KFMSF	8.3±0.3 8.5	0.75±0.02 0.73	9.1±0.3 9.7
Newport Lights 100's 100FMHP	9.2±0.3 8.8	0.84±0.02 0.82	9.9±0.3 8.6
Newport Lights 100's 100FMSP	9.0±0.3 8.9	0.83±0.02 0.78	9.5±0.4 8.2
7/88 Newport Stripes 100FHP	12.3±0.3 11.1	0.94±0.02 0.89	16.6±0.4 13.4
6/88 Newport Stripes 100FMHP	12.2±0.2 11.1	0.91±0.02 0.87	16.5±0.2 13.5
● Newport Stripes Slim Lights 100FMHP	9.3±0.2	0.76±0.02	11.4±0.2
Old Gold Straights KNFSP	26.9±0.6 24.0	1.89±0.05 1.80	18.7±0.5 17.6
Old Gold Filters KFSP	16.8±0.2 15.0	1.24±0.02 1.16	18.1±0.3 16.2
Old Gold Filter 100's 100FSP	19.7±0.3 18.2	1.50±0.03 1.48	19.6±0.4 18.8
Old Gold Lights KFSP	9.3±0.2 8.5	0.81±0.02 0.75	10.9±0.3 9.7
5/85 Old Gold Lights 100s 100FSP	12.3±0.2 12.2	0.91±0.02 0.97	17.0±0.3 16.3
Satin 100FSP	11.4±0.3 10.5	0.97±0.02 0.90	13.1±0.4 11.8
Satin 100FMSP	11.4±0.3 10.8	0.97±0.02 0.93	13.3±0.4 12.5
Spring 100's 100FMSP	19.3±0.2 18.5	1.49±0.03 1.48	19.0±0.2 18.0
Triumph KFSP	3.1±0.1 4.3	0.32±0.02 0.38	3.8±0.2 3.7
Triumph KFMSF	3.5±0.2 4.3	0.34±0.02 0.38	4.3±0.2 4.1
Triumph 100s 100FSP	5.3±0.3 5.8	0.50±0.02 0.51	7.4±0.4 5.6
Triumph 100s 100FMSP	5.4±0.2 5.6	0.52±0.01 0.51	7.5±0.2 5.7
True KFSP	5.1±0.2 5.1	0.48±0.02 0.47	6.4±0.3 5.6
True KFMSF	4.9±0.3 5.2	0.46±0.02 0.46	6.1±0.4 6.2
True 100's 100FSP	6.7±0.3 6.7	0.61±0.02 0.62	7.4±0.4 7.5
True 100's 100FMSP	6.7±0.4 7.4	0.61±0.03 0.66	7.3±0.5 7.3

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Tobacco Institute Testing Laboratory
Market Sample 31
Test Results - Philip Morris Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Alpine KFMSF	16.9±0.3 15.7	1.10±0.02 1.07	15.4±0.3 14.2
Benson & Hedges KFHP	15.4±0.2 14.6	1.26±0.02 1.20	12.6±0.3 11.5
Benson & Hedges 100's 100FHP	16.6±0.3 15.7	1.18±0.02 1.08	16.5±0.5 14.4
Benson & Hedges 100's 100FMHP	16.6±0.3 16.2	1.17±0.02 1.20	16.4±0.3 14.8
Benson & Hedges 100's 100FSP	16.6±0.3 16.0	1.19±0.02 1.20	16.2±0.4 15.7
Benson & Hedges 100's 100FMSP	16.8±0.2 15.6	1.20±0.02 1.16	16.2±0.3 15.3
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	5.0±0.2 5.2	0.44±0.02 0.43	6.2±0.3 5.7
Benson & Hedges Deluxe Ultra Lights 100's 100FMHP	5.2±0.1 5.5	0.47±0.01 0.44	6.2±0.2 6.1
Benson & Hedges Lights 100's 100FSP	10.7±0.2 10.2	0.83±0.02 0.83	13.0±0.3 11.7
Benson & Hedges Lights 100's 100FMSP	10.7±0.2 10.3	0.81±0.02 0.79	12.0±0.2 11.2
Benson & Hedges Multifilter KFSP	11.2±0.3 11.3	0.85±0.02 0.85	10.8±0.2 10.8
Cambridge Full Flavor KFSP	17.1±0.3 15.4	1.09±0.01 1.04	16.1±0.3 14.8
Cambridge Full Flavor 100's 100FSP	17.2±0.3 15.7	1.17±0.02 1.08	16.0±0.3 15.0
Cambridge Lights KFSP	12.3±0.2 11.2	0.85±0.01 0.82	12.7±0.3 11.3
Cambridge Lights KFMSF	11.9±0.2 11.3	0.84±0.02 0.82	12.1±0.3 11.4
Cambridge Lights 100's 100FSP	12.0±0.2 11.2	0.87±0.02 0.84	14.5±0.4 13.4
Cambridge Lights 100's 100FMSP	11.9±0.2 11.1	0.86±0.01 0.83	14.6±0.4 13.0
Cambridge Ultra Low Tar 100's 100FSP	4.7±0.2 4.8	0.41±0.01 0.38	6.6±0.3 5.0
English Ovals KNFHP	23.8±0.6 21.6	1.87±0.04 1.71	15.6±0.5 12.4
Marlboro KFHP	17.0±0.2 16.0	1.14±0.02 1.12	15.2±0.3 13.6
Marlboro KFSP	17.4±0.2 16.1	1.17±0.02 1.13	16.9±0.4 14.9
Marlboro KFMSF	16.6±0.3 15.2	1.09±0.03 1.04	15.6±0.3 14.9
Marlboro 100's 100FHP	17.0±0.4 16.0	1.22±0.03 1.14	16.9±0.6 15.3
Marlboro 100's 100FSP	17.1±0.3 16.1	1.22±0.02 1.19	16.5±0.4 16.6
Marlboro 25's KFSP	17.2±0.3 16.5	1.13±0.02 1.13	15.9±0.3 14.8
Marlboro Lights KFHP	11.0±0.2 10.5	0.82±0.02 0.79	12.4±0.3 11.4
7/88 Marlboro Lights KFMSF	10.2±0.2 9.6	0.78±0.02 0.74	11.2±0.3 10.0
Marlboro Lights KFSP	11.2±0.2 10.6	0.83±0.02 0.80	12.2±0.3 11.8
● Marlboro Lights KFMSF	9.9±0.2	0.77±0.01	10.4±0.3
Marlboro Lights 100's 100FHP	10.8±0.2 10.7	0.85±0.02 0.85	12.3±0.3 12.3
7/88 Marlboro Lights 100's 100FMHP	10.2±0.2 9.4	0.81±0.02 0.76	11.2±0.4 10.7
Marlboro Lights 100's 100FSP	11.0±0.2 10.8	0.85±0.02 0.85	13.0±0.4 12.0
● Marlboro Lights 100's 100FMSP	10.9±0.1	0.86±0.01	12.0±0.3
Marlboro Lights 25's KFSP	11.2±0.2 10.5	0.80±0.02 0.74	12.4±0.3 11.6
● Marlboro 100's Red 100FHP	16.4±0.3	1.19±0.02	16.3±0.4
● Marlboro 100's Red 100FSP	16.5±0.2	1.19±0.02	17.0±0.2
Merit KFHP	7.8±0.2 7.7	0.60±0.01 0.60	9.8±0.2 9.7
Merit KFSP	7.6±0.2 7.6	0.59±0.01 0.60	9.8±0.3 9.1
Merit KFMSF	7.7±0.2 7.6	0.58±0.01 0.59	10.0±0.3 9.0
Merit 100's 100FSP	10.0±0.2 9.9	0.80±0.02 0.79	11.8±0.3 10.6
Merit 100's 100FMSP	10.1±0.2 9.8	0.78±0.02 0.76	12.0±0.3 11.3
Merit Ultra Lights KFSP	4.4±0.2 5.1	0.43±0.01 0.43	5.5±0.2 4.8
Merit Ultra Lights KFMSF	4.5±0.1 5.1	0.42±0.01 0.43	5.9±0.2 5.5
Merit Ultra Lights 100's 100FSP	5.3±0.1 5.6	0.50±0.01 0.48	7.4±0.2 6.4
Merit Ultra Lights 100's 100FMSP	6.0±0.2 5.9	0.53±0.02 0.51	8.2±0.3 7.0
Parliament Lights KFHP	9.5±0.2 9.1	0.72±0.02 0.70	10.3±0.4 9.4
Parliament Lights KFSP	9.1±0.2 9.2	0.71±0.02 0.71	10.4±0.2 9.0

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Tobacco Institute Testing Laboratory
Market Sample 31
Test Results - Philip Morris Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Parliament Lights 100's 100FSP	12.0±0.2 11.8	0.95±0.02 0.97	12.7±0.2 12.5
Philip Morris Commander KNFSP	26.3±0.5 23.2	1.61±0.03 1.49	16.2±0.5 14.0
Philip Morris International 100FHP	16.8±0.4 16.4	1.15±0.02 1.14	15.6±0.4 14.4
Philip Morris International 100FMHP	16.9±0.2 16.6	1.08±0.02 1.08	16.2±0.4 14.9
Players RNFHP	25.2±0.4 23.0	1.74±0.03 1.62	15.9±0.4 12.5
Players KFHP	11.7±0.2 11.1	0.83±0.02 0.80	12.2±0.2 11.7
Players KFMHP	11.9±0.2 11.2	0.82±0.01 0.82	12.3±0.2 11.7
Players 100's 100FHP	13.9±0.2 13.4	0.98±0.02 0.96	12.9±0.3 11.9
Players 100's 100FMHP	14.0±0.2 13.2	0.98±0.02 0.98	12.7±0.3 11.4
Players Lights 25's KFSP	10.0±0.2 9.4	0.72±0.02 0.73	11.1±0.2 10.3
Players Lights 25's KFMSP	10.0±0.2 9.0	0.71±0.01 0.68	11.1±0.4 10.5
Players 25's Lights 100's 100FSP	11.9±0.3 11.4	0.86±0.02 0.89	14.1±0.4 11.8
Players 25's Lights 100's 100FMSP	11.4±0.2 10.9	0.81±0.01 0.80	13.7±0.3 12.6
Saratoga 120's 120FHP	14.7±0.2 14.4	1.07±0.02 1.09	14.8±0.3 12.8
Saratoga 120's 120FMHP	14.7±0.3 13.8	1.07±0.02 1.02	14.8±0.4 13.9
Virginia Slims 100FSP	15.3±0.2 14.1	1.07±0.02 1.02	13.8±0.3 12.8
Virginia Slims 100FMSP	15.1±0.3 13.9	1.06±0.03 1.01	13.9±0.3 13.3
Virginia Slims Lights 100FHP	8.8±0.2 8.7	0.70±0.02 0.72	9.3±0.3 8.8
Virginia Slims Lights 100FMHP	8.5±0.2 8.7	0.69±0.02 0.69	9.2±0.2 8.4
Virginia Slims Lights 120's 120FHP	14.5±0.2 13.8	1.07±0.02 1.05	14.9±0.3 14.2
Virginia Slims Lights 120's 120FMHP	14.7±0.3 13.5	1.08±0.02 1.03	14.8±0.4 13.5

Tobacco Institute Testing Laboratory
Market Sample 31
Test Results - R.J. Reynolds Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
3/88 Bright 100s 100FMSP	6.0±0.1 6.3	0.44±0.01 0.44	10.3±0.3 9.6
Camel RNFSP	22.0±0.3 20.0	1.39±0.02 1.32	14.2±0.4 12.7
Camel Filters KFHP	16.8±0.2 15.4	1.06±0.02 0.99	16.6±0.3 16.6
Camel Filters KFSP	15.6±0.3 14.0	1.01±0.02 0.98	15.4±0.2 14.1
● Camel Filters 100's 100FSP	17.5±0.2	1.06±0.01	18.7±0.3
Camel Lights KFHP	9.9±0.2 9.1	0.64±0.01 0.61	11.8±0.3 10.2
Camel Lights KFSP	8.8±0.2 8.6	0.65±0.01 0.64	11.3±0.3 11.3
Camel Lights 100's 100FSP	11.4±0.2 10.9	0.81±0.01 0.76	15.0±0.3 13.9
Century 25's (25) KFSP	15.3±0.3 14.1	0.99±0.02 0.93	17.8±0.3 16.7
Century 25's 100's 100FSP	17.5±0.3 16.3	1.13±0.02 1.12	20.9±0.5 19.9
Century 25's Lights (25) KFSP	9.7±0.2 8.9	0.70±0.02 0.67	11.8±0.3 9.2
Century 25's Lights 100's 100FSP	11.9±0.3 11.1	0.89±0.02 0.85	13.4±0.3 12.9
● Century 25's Menthol Lights 100's 100FMSP	11.5±0.2	0.84±0.01	13.2±0.3
Doral Full Flavor KFSP	17.4±0.2 15.2	0.92±0.01 1.06	19.6±0.4 18.1
Doral Full Flavor 100's 100FSP	14.8±0.2 12.9	0.84±0.01 0.85	17.2±0.3 15.6
Doral Lights KFSP	12.1±0.3 9.5	0.67±0.02 0.75	14.5±0.4 9.1
Doral Menthol Lights KFMSP	11.7±0.2 9.4	0.64±0.01 0.74	14.0±0.2 9.7
Doral Lights 100's 100FSP	11.3±0.3 10.4	0.70±0.02 0.85	12.9±0.3 11.3
Doral Menthol Lights 100's 100FMSP	12.1±0.3 10.8	0.73±0.01 0.88	13.7±0.3 9.4
Doral Ultra Lights 100's 100FSP	6.7±0.3 6.0	0.48±0.02 0.55	11.7±0.5 6.3
Magna KFHP	14.1±0.3 12.8	0.90±0.01 0.84	16.3±0.4 14.2
Magna KFSP	13.9±0.2 12.4	0.91±0.02 0.84	14.9±0.2 14.7
Magna Lites KFSP	9.1±0.2 8.5	0.64±0.01 0.60	13.7±0.2 12.3
More 120s 120FSP	16.5±0.4 16.4	1.19±0.02 1.25	21.5±0.4 20.5
More 120s 120FMSP	16.6±0.3 16.5	1.28±0.03 1.33	22.0±0.5 21.2
More Lights 100s 100FHP	10.0±0.2 9.5	0.78±0.02 0.75	10.7±0.3 10.3
More Lights 100s 100FMHP	9.0±0.3 9.3	0.69±0.03 0.67	10.2±0.3 9.6
● More Lights 120s 120FSP	12.9±0.2	0.98±0.01	20.2±0.5
● More Lights 120s 120FMSP	12.2±0.4	0.99±0.03	19.6±0.5
● Now KFHP	< 0.5 0.0	< 0.05 0.00	< 0.5 0.4
Now KFSP	1.0±0.1 1.5	0.14±0.01 0.14	2.3±0.1 1.6
Now KFMSP	1.1±0.1 1.8	0.13±0.01 0.17	2.3±0.1 2.5
● Now 100s 100FHP	< 0.5	< 0.05	< 0.5
Now 100s 100FSP	1.9±0.1 2.3	0.21±0.01 0.26	3.1±0.2 2.6
Now 100s 100FMSP	2.5±0.1 3.0	0.26±0.01 0.25	4.3±0.2 4.2
Ritz 100 100FHP	10.4±0.3 9.2	0.78±0.02 0.76	11.5±0.4 8.7
Ritz 100 100FMHP	11.1±0.3 10.7	0.81±0.02 0.75	11.5±0.3 11.0
Salem KFMSP	15.9±0.3 15.6	1.04±0.02 1.07	16.7±0.3 16.4
Salem 100's 100FMSP	16.8±0.3 15.4	1.19±0.02 1.13	16.1±0.3 15.3
Salem Lights KFMSP	9.8±0.2 9.2	0.72±0.02 0.69	12.6±0.2 12.1
● Salem Lights 100's 100FMHP	11.3±0.2	0.86±0.02	11.6±0.2
Salem Lights 100's 100FMSP	9.3±0.3 9.1	0.74±0.02 0.70	11.1±0.4 10.9
Salem Slim Lights 100's 100FMHP	9.5±0.2 9.0	0.77±0.02 0.69	10.2±0.3 9.7
Salem Ultra Lights KFMSP	4.9±0.1 5.1	0.43±0.01 0.41	7.7±0.2 7.5
Salem Ultra Lights 100's 100FMSP	5.1±0.1 5.5	0.45±0.01 0.44	8.0±0.2 7.1
Vantage KFSP	10.5±0.2 10.1	0.75±0.02 0.74	13.5±0.3 12.5
Vantage KFMSP	10.0±0.2 9.7	0.69±0.01 0.68	12.5±0.3 11.3

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Tobacco Institute Testing Laboratory
Market Sample 31
Test Results - R.J. Reynolds Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Vantage 100s 100FSP	8.8±0.2 8.8	0.63±0.02 0.62	12.5±0.3 11.6
Vantage Menthol 100s 100FMSP.....	8.3±0.2 8.4	0.61±0.01 0.59	12.7±0.3 11.9
Vantage Ultra Lights KFSP.....	5.5±0.1 5.6	0.47±0.01 0.44	8.0±0.2 7.3
Vantage Ultra Lights 100s 100FSP	5.8±0.1 5.9	0.50±0.01 0.47	9.5±0.2 8.8
Winston KFHP	16.8±0.3 15.0	1.06±0.02 1.00	16.9±0.3 14.8
Winston KFSP	17.1±0.3 16.0	1.13±0.02 1.11	16.3±0.2 15.6
Winston 100's 100FSP	16.9±0.2 15.8	1.06±0.02 1.02	18.6±0.3 16.6
Winston Lights KFHP	9.7±0.2 9.5	0.63±0.01 0.63	11.7±0.3 11.1
Winston Lights KFSP	10.7±0.2 10.1	0.75±0.01 0.71	13.2±0.3 11.7
Winston Lights 100's 100FHP	9.9±0.2 8.8	0.72±0.02 0.64	11.8±0.3 10.2
Winston Lights 100's 100FSP.....	11.4±0.2 11.1	0.81±0.01 0.81	13.4±0.3 12.4
Winston Ultra Lights KFSP.....	5.5±0.2 6.0	0.46±0.01 0.46	8.5±0.2 8.3
Winston Ultra Lights 100's 100FSP	5.3±0.2 5.5	0.47±0.02 0.43	9.0±0.3 8.3

**Tobacco Institute Testing Laboratory
Market Sample 31
Test Results - Larus & Brother Brands**

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
• Craven A KFHP.....	15.8±0.4	1.15±0.02	16.3±0.4
• Craven A Filter Standard Size RFHP	18.6±0.4	1.51±0.03	13.6±0.3
• Dunhill International 100FHP.....	15.2±0.3	1.39±0.03	17.6±0.3
• Dunhill Menthol 100FMHP	14.2±0.3	1.19±0.02	17.0±0.4
• Dunhill Menthol Mild 100FMHP	10.4±0.2	0.96±0.02	12.5±0.2
• Dunhill Int Superior Mild 100FHP.....	8.4±0.2	0.73±0.01	10.5±0.2
• Rothmans KFHP.....	19.4±0.4	1.34±0.02	22.5±0.7
• Rothmans Special Mild KFHP.....	13.6±0.2	1.03±0.02	15.5±0.4
St. Moritz Filter 100s 100FSP.....	14.9±0.2 / 3.0	1.08±0.02 / 0.7	15.5±0.2 / 5.1
St. Moritz Menthol 100FMSP	14.9±0.3 / 3.5	0.96±0.01 / 0.2	17.1±0.4 / 4.0

Appendix B

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Tobacco Institute Testing Laboratory
Market Sample 31
Sorted "Tar" Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Carlton KFHP	<0.5	<0.05	<0.5
Now KFHP	<0.5	<0.05	<0.5
Now 100s 100FHP	<0.5	<0.05	<0.5
Carlton KFMSP	0.6±0.1	0.09±0.01	1.4±0.1
Carlton 100's 100FMHP	0.6±0.1	0.10±0.01	1.0±0.1
Carlton 100's 100FHP	0.7±0.1	0.10±0.01	1.1±0.1
Now KFSP	1.0±0.1	0.14±0.01	2.3±0.1
Now KFMSP	1.1±0.1	0.13±0.01	2.3±0.1
Carlton KFSP	1.3±0.1	0.15±0.01	2.4±0.1
Now 100s 100FSP	1.9±0.1	0.21±0.01	3.1±0.2
Kool Ultra KFMSP	2.2±0.2	0.21±0.02	2.7±0.2
Now 100s 100FMSP	2.5±0.1	0.26±0.01	4.3±0.2
Triumph KFSP	3.1±0.1	0.32±0.02	3.8±0.2
Carlton 100's 100FSP	3.4±0.1	0.35±0.01	4.6±0.2
Kent III KFSP	3.4±0.2	0.35±0.02	4.3±0.2
Triumph KFMSP	3.5±0.2	0.34±0.02	4.3±0.2
Merit Ultra Lights KFSP	4.4±0.2	0.43±0.01	5.5±0.2
Carlton 100's 100FMSP	4.5±0.1	0.42±0.01	6.4±0.2
Merit Ultra Lights KFMSP	4.5±0.1	0.42±0.01	5.9±0.2
Cambridge Ultra Low Tar 100's 100FSP	4.7±0.2	0.41±0.01	6.6±0.3
Kent III 100s 100FSP	4.7±0.2	0.45±0.01	6.6±0.3
True KFMSP	4.9±0.3	0.46±0.02	6.1±0.4
Salem Ultra Lights KFMSP	4.9±0.1	0.43±0.01	7.7±0.2
Kent III 100s 100FHP	5.0±0.2	0.50±0.03	6.8±0.3
Kool Ultra 100's 100FMSP	5.0±0.3	0.45±0.02	5.2±0.3
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	5.0±0.2	0.44±0.02	6.2±0.3
True KFSP	5.1±0.2	0.48±0.02	6.4±0.3
Salem Ultra Lights 100's 100FMSP	5.1±0.1	0.45±0.01	8.0±0.2
Tareyton Lights KFSP	5.2±0.2	0.44±0.01	6.0±0.2
Benson & Hedges Deluxe Ultra Lights 100's 100FMHP	5.2±0.1	0.47±0.01	6.2±0.2
Merit Ultra Lights 100's 100FSP	5.3±0.1	0.50±0.01	7.4±0.2
Triumph 100s 100FSP	5.3±0.3	0.50±0.02	7.4±0.4
Winston Ultra Lights 100's 100FSP	5.3±0.2	0.47±0.02	9.0±0.3
Triumph 100s 100FMSP	5.4±0.2	0.52±0.01	7.5±0.2
Winston Ultra Lights KFSP	5.5±0.2	0.46±0.01	8.5±0.2
Vantage Ultra Lights KFSP	5.5±0.1	0.47±0.01	8.0±0.2
Vantage Ultra Lights 100s 100FSP	5.8±0.1	0.50±0.01	9.5±0.2
Merit Ultra Lights 100's 100FMSP	6.0±0.2	0.53±0.02	8.2±0.3
Bright 100s 100FMSP	6.0±0.1	0.44±0.01	10.3±0.3
Carlton 120's 120FMSP	6.2±0.2	0.62±0.03	5.5±0.2
Carlton 120's 120FSP	6.5±0.2	0.62±0.02	5.6±0.2
Doral Ultra Lights 100's 100FSP	6.7±0.3	0.48±0.02	11.7±0.5
True 100's 100FMSP	6.7±0.4	0.61±0.03	7.3±0.5
True 100's 100FSP	6.7±0.3	0.61±0.02	7.4±0.4
Merit KFSP	7.6±0.2	0.59±0.01	9.8±0.3
Merit KFMSP	7.7±0.2	0.58±0.01	10.0±0.3
L & M Long Lights 100FSP	7.8±0.2	0.80±0.02	6.3±0.2

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Tobacco Institute Testing Laboratory
Market Sample 31
Sorted "Tar" Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Merit KFHP.....	7.8±0.2	0.60±0.01	9.8±0.2
Tareyton Long Lights 100FSP.....	8.1±0.2	0.68±0.01	8.8±0.3
Kool Lights KFMSP.....	8.2±0.2	0.69±0.02	9.0±0.2
Newport Lights KFMSP.....	8.3±0.3	0.75±0.02	9.1±0.3
Kent Golden Lights KFMSP.....	8.3±0.3	0.75±0.02	9.1±0.4
Vantage Menthol 100s 100FMSP.....	8.3±0.2	0.61±0.01	12.7±0.3
Dunhill Int Superior Mild 100FHP.....	8.4±0.2	0.73±0.01	10.5±0.2
Lucky Strike Lights KFSP.....	8.4±0.3	0.68±0.02	10.2±0.3
Kent Golden Lights KFSP.....	8.5±0.2	0.74±0.02	9.6±0.3
Kool Lights 100's 100FMSP.....	8.5±0.2	0.73±0.01	10.0±0.3
Virginia Slims Lights 100FMHP.....	8.5±0.2	0.69±0.02	9.2±0.2
Newport Lights KFMHP.....	8.6±0.2	0.73±0.02	9.5±0.3
Vantage 100s 100FSP.....	8.8±0.2	0.63±0.02	12.5±0.3
Belair 100's 100FMSP.....	8.8±0.2	0.67±0.02	9.1±0.2
Kent Golden Lights KFHP.....	8.8±0.3	0.78±0.02	9.7±0.4
Camel Lights KFSP.....	8.8±0.2	0.65±0.01	11.3±0.3
Virginia Slims Lights 100FHP.....	8.8±0.2	0.70±0.02	9.3±0.3
Capri 100FMHP.....	8.9±0.2	0.73±0.02	6.0±0.2
Lucky Strike Lights 100's 100FSP.....	8.9±0.2	0.74±0.01	10.0±0.3
Falcon Lights 100's 100FMSP.....	8.9±0.2	0.73±0.02	11.0±0.3
More Lights 100s 100FMHP.....	9.0±0.3	0.69±0.03	10.2±0.3
Newport Lights 100's 100FMSP.....	9.0±0.3	0.83±0.02	9.5±0.4
Malibu Lights 100's 100FSP.....	9.1±0.2	0.75±0.02	10.6±0.4
Magna Lites KFSP.....	9.1±0.2	0.64±0.01	13.7±0.2
Parliament Lights KFSP.....	9.1±0.2	0.71±0.02	10.4±0.2
Capri 100FHP.....	9.2±0.2	0.78±0.02	6.4±0.2
Newport Lights 100's 100FMHP.....	9.2±0.3	0.84±0.02	9.9±0.3
Salem Lights 100's 100FMSP.....	9.3±0.3	0.74±0.02	11.1±0.4
Newport Stripes Slim Lights 100FMHP.....	9.3±0.2	0.76±0.02	11.4±0.2
Kent Golden Lights 100s 100FMSP.....	9.3±0.2	0.85±0.02	10.0±0.3
Old Gold Lights KFSP.....	9.3±0.2	0.81±0.02	10.9±0.3
Parliament Lights KFHP.....	9.5±0.2	0.72±0.02	10.3±0.4
Salem Slim Lights 100's 100FMHP.....	9.5±0.2	0.77±0.02	10.2±0.3
Kent Golden Lights 100s 100FSP.....	9.6±0.3	0.86±0.02	10.5±0.4
Century 25's Lights (25) KFSP.....	9.7±0.2	0.70±0.02	11.8±0.3
Winston Lights KFHP.....	9.7±0.2	0.63±0.01	11.7±0.3
Salem Lights KFMSP.....	9.8±0.2	0.72±0.02	12.6±0.2
Camel Lights KFHP.....	9.9±0.2	0.64±0.01	11.8±0.3
Winston Lights 100's 100FHP.....	9.9±0.2	0.72±0.02	11.8±0.3
Marlboro Lights KFMSP.....	9.9±0.2	0.77±0.01	10.4±0.3
More Lights 100s 100FHP.....	10.0±0.2	0.78±0.02	10.7±0.3
Players Lights 25's KFMSP.....	10.0±0.2	0.71±0.01	11.1±0.4
Vantage KFMSP.....	10.0±0.2	0.69±0.01	12.5±0.3
Players Lights 25's KFSP.....	10.0±0.2	0.72±0.02	11.1±0.2
Merit 100's 100FSP.....	10.0±0.2	0.80±0.02	11.8±0.3
Merit 100's 100FMSP.....	10.1±0.2	0.78±0.02	12.0±0.3
Marlboro Lights 100's 100FHMP.....	10.2±0.2	0.81±0.02	11.2±0.4

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Tobacco Institute Testing Laboratory
Market Sample 31
Sorted "Tar" Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Marlboro Lights KFMHP	10.2±0.2	0.78±0.02	11.2±0.3
Falcon Lights KFMSP	10.2±0.3	0.78±0.02	11.9±0.4
Kent Golden Lights 100s 100FHP	10.2±0.2	0.91±0.02	11.2±0.4
Malibu Lights KFSP	10.2±0.2	0.79±0.01	10.8±0.3
Pall Mall Red Lights KFSP	10.3±0.3	0.81±0.02	10.7±0.3
Pall Mall Lights 100's 100FSP	10.3±0.2	0.84±0.02	12.0±0.3
Ritz 100 100FHP	10.4±0.3	0.78±0.02	11.5±0.4
Dunhill Menthol Mild 100FMHP	10.4±0.2	0.96±0.02	12.5±0.2
Vantage KFSP	10.5±0.2	0.75±0.02	13.5±0.3
Benson & Hedges Lights 100's 100FMSP	10.7±0.2	0.81±0.02	12.0±0.2
Belair KFMSP	10.7±0.2	0.84±0.01	9.8±0.2
Winston Lights KFSP	10.7±0.2	0.75±0.01	13.2±0.3
Benson & Hedges Lights 100's 100FSP	10.7±0.2	0.83±0.02	13.0±0.3
Marlboro Lights 100's 100FHP	10.8±0.2	0.85±0.02	12.3±0.3
Marlboro Lights 100's 100FMSP	10.9±0.1	0.86±0.01	12.0±0.3
Marlboro Lights 100's 100FSP	11.0±0.2	0.85±0.02	13.0±0.4
Marlboro Lights KFHP	11.0±0.2	0.82±0.02	12.4±0.3
Silva Thins Menthol 100FMHP	11.1±0.2	0.90±0.01	11.7±0.3
Ritz 100 100FMHP	11.1±0.3	0.81±0.02	11.5±0.3
Pall Mall Red Lights 100's 100FSP	11.1±0.2	0.88±0.02	12.2±0.4
Falcon Lights KFSP	11.2±0.2	0.77±0.02	11.2±0.3
Marlboro Lights 25's KFSP	11.2±0.2	0.80±0.02	12.4±0.3
Benson & Hedges Multifilter KFSP	11.2±0.3	0.85±0.02	10.8±0.2
Marlboro Lights KFSP	11.2±0.2	0.83±0.02	12.2±0.3
Salem Lights 100's 100FMHP	11.3±0.2	0.86±0.02	11.6±0.2
Doral Lights 100's 100FSP	11.3±0.3	0.70±0.02	12.9±0.3
Kent KFHP	11.3±0.2	0.86±0.02	12.9±0.3
Viceroy Lights KFSP	11.3±0.3	0.88±0.02	13.1±0.3
Satin 100FMSP	11.4±0.3	0.97±0.02	13.3±0.4
Winston Lights 100's 100FSP	11.4±0.2	0.81±0.01	13.4±0.3
Satin 100FSP	11.4±0.3	0.97±0.02	13.1±0.4
Raleigh Lights KFSP	11.4±0.2	0.87±0.02	13.1±0.3
Camel Lights 100's 100FSP	11.4±0.2	0.81±0.01	15.0±0.3
Players 25's Lights 100's 100FMSP	11.4±0.2	0.81±0.01	13.7±0.3
Century 25's Menthol Lights 100's 100FMSP	11.5±0.2	0.84±0.01	13.2±0.3
Richland Lights (25) KFSP	11.5±0.2	0.89±0.02	12.7±0.3
Kool Milds KFMHP	11.6±0.3	0.88±0.02	11.3±0.3
Malibu Menthol 100's 100FMSP	11.6±0.2	0.94±0.02	12.5±0.3
Silva Thins 100FSP	11.7±0.2	0.98±0.02	10.0±0.2
Players KFHP	11.7±0.2	0.83±0.02	12.2±0.2
Doral Menthol Lights KFMSP	11.7±0.2	0.64±0.01	14.0±0.2
Richland 20's Lights KFSP	11.7±0.3	0.90±0.02	13.5±0.3
Lucky Strike Menthol 100's 100FMSP	11.8±0.1	0.96±0.02	12.3±0.2
Lucky Strike KFSP	11.8±0.3	0.89±0.02	12.6±0.3
Cambridge Lights 100's 100FMSP	11.9±0.2	0.86±0.01	14.6±0.4
Players KFMHP	11.9±0.2	0.82±0.01	12.3±0.2
Cambridge Lights KFMSP	11.9±0.2	0.84±0.02	12.1±0.3

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Tobacco Institute Testing Laboratory
Market Sample 31
Sorted "Tar" Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Lucky Strike Filters 100's 100FSP	11.9±0.2	0.96±0.02	12.7±0.2
Century 25's Lights 100's 100FSP	11.9±0.3	0.89±0.02	13.4±0.3
Viceroy Lights 100's 100FSP	11.9±0.2	0.92±0.02	14.1±0.3
Players 25's Lights 100's 100FSP	11.9±0.3	0.86±0.02	14.1±0.4
American Lights KFSP	11.9±0.2	0.91±0.02	12.9±0.3
Cambridge Lights 100's 100FSP	12.0±0.2	0.87±0.02	14.5±0.4
Parliament Lights 100's 100FSP	12.0±0.2	0.95±0.02	12.7±0.2
Kent KFSP	12.0±0.2	0.88±0.02	13.9±0.3
Kool Milds 100's 100FMSP	12.0±0.3	0.95±0.02	12.6±0.4
Doral Lights KFSP	12.1±0.3	0.67±0.02	14.5±0.4
Falcon Lights 100's 100FSP	12.1±0.2	0.85±0.02	14.8±0.4
Richland 20's Lights 100's 100FSP	12.1±0.2	0.90±0.02	14.2±0.4
Doral Menthol Lights 100's 100FMSP	12.1±0.3	0.73±0.01	13.7±0.3
Lucky Strike KFHP	12.1±0.2	0.92±0.02	12.8±0.4
Raleigh Lights 100's 100FSP	12.2±0.3	0.94±0.02	14.3±0.3
Newport Stripes 100FMHP	12.2±0.2	0.91±0.02	16.5±0.2
Silva Thins Filters 100FHP	12.2±0.2	0.97±0.02	12.5±0.3
More Lights 120s 120FMSP	12.2±0.4	0.99±0.03	19.6±0.5
Cambridge Lights KFSP	12.3±0.2	0.85±0.01	12.7±0.3
Silva Thins Menthol 100FMSP	12.3±0.3	1.05±0.02	10.5±0.3
Kool Milds KFMSP	12.3±0.3	0.93±0.02	13.1±0.3
Newport Stripes 100FHP	12.3±0.3	0.94±0.02	16.6±0.4
Old Gold Lights 100s 100FSP	12.3±0.2	0.91±0.02	17.0±0.3
Richland Lights (25) 100's 100FSP	12.4±0.2	0.94±0.02	14.0±0.2
L & M 30's Lights 100's 100FSP	12.6±0.3	1.06±0.02	10.7±0.3
Eve Slim Lights 100's 100FMHP	12.6±0.3	1.00±0.02	10.8±0.3
Eve Slim Lights 100's 100FHP	12.8±0.2	1.03±0.02	11.0±0.2
More Lights 120s 120FSP	12.9±0.2	0.98±0.01	20.2±0.5
Eve Lights 120's 120FHP	13.0±0.4	1.12±0.03	11.6±0.5
Pall Mall Light 100's Low Tar 100FMSP	13.3±0.2	1.08±0.02	13.1±0.3
American Lights 100's 100FSP	13.3±0.2	1.08±0.01	13.9±0.2
Lark Lights KFSP	13.4±0.3	1.03±0.02	13.3±0.3
Eve Lights 120's 120FMHP	13.5±0.2	1.17±0.02	12.0±0.3
Kent 100s 100FSP	13.6±0.3	1.02±0.02	14.7±0.4
Pall Mall Red Filters KFSP	13.6±0.3	1.02±0.02	12.6±0.3
Rothmans Special Mild KFHP	13.6±0.2	1.03±0.02	15.5±0.4
L & M KFSP	13.7±0.2	1.08±0.02	12.9±0.3
Pall Mall Red Filters 100's 100FSP	13.8±0.3	1.07±0.02	14.0±0.2
Players 100's 100FHP	13.9±0.2	0.98±0.02	12.9±0.3
Lark Light 100's 100FSP	13.9±0.3	1.15±0.03	14.5±0.5
L & M Super 100 100FSP	13.9±0.2	1.12±0.02	14.2±0.3
Magna KFSP	13.9±0.2	0.91±0.02	14.9±0.2
Malibu 100's 100FSP	13.9±0.3	1.10±0.02	13.4±0.3
Kent 100s 100FMSP	14.0±0.2	1.04±0.01	14.4±0.3
Players 100's 100FMHP	14.0±0.2	0.98±0.02	12.7±0.3
Magna KFHP	14.1±0.3	0.90±0.01	16.3±0.4
Harley Davidson KFSP	14.1±0.3	0.98±0.02	16.3±0.4

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Tobacco Institute Testing Laboratory
Market Sample 31
Sorted "Tar" Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Tareyton 100's 100FSP	14.1±0.2	1.02±0.02	16.8±0.4
Dunhill Menthol 100FMHP	14.2±0.3	1.19±0.02	17.0±0.4
Lark KFSP	14.3±0.3	1.11±0.03	13.3±0.3
Tareyton KFSP	14.3±0.3	0.98±0.02	15.9±0.3
Virginia Slims Lights 120's 120FHP	14.5±0.2	1.07±0.02	14.9±0.3
Saratoga 120's 120FHP	14.7±0.2	1.07±0.02	14.8±0.3
Saratoga 120's 120FMHP	14.7±0.3	1.07±0.02	14.8±0.4
Lark 100FSP	14.7±0.2	1.22±0.02	14.0±0.2
Virginia Slims Lights 120's 120FMHP	14.7±0.3	1.08±0.02	14.8±0.4
Doral Full Flavor 100's 100FSP	14.8±0.2	0.84±0.01	17.2±0.3
St. Moritz Filter 100s 100FSP	14.9±0.2	1.08±0.02	15.5±0.2
St. Moritz Menthol 100FMSP	14.9±0.3	0.96±0.01	17.1±0.4
Virginia Slims 100FMSP	15.1±0.3	1.06±0.03	13.9±0.3
Dunhill International 100FHP	15.2±0.3	1.39±0.03	17.6±0.3
Virginia Slims 100FSP	15.3±0.2	1.07±0.02	13.8±0.3
Century 25's (25) KFSP	15.3±0.3	0.99±0.02	17.8±0.3
Viceroy KFSP	15.3±0.3	0.97±0.02	14.5±0.3
Benson & Hedges KFHP	15.4±0.2	1.26±0.02	12.6±0.3
Raleigh KFSP	15.5±0.4	0.97±0.03	14.7±0.3
Raleigh 100's 100FSP	15.5±0.3	0.99±0.02	16.0±0.3
Camel Filters KFSP	15.6±0.3	1.01±0.02	15.4±0.2
Newport KFMHP	15.7±0.2	1.17±0.02	16.5±0.3
Craven "A" KFHP	15.8±0.4	1.15±0.02	16.3±0.4
Viceroy Super Long 100's 100FSP	15.9±0.3	1.14±0.02	15.1±0.3
Salem KFMSP	15.9±0.3	1.04±0.02	16.7±0.3
Richland 100's (25) 100FMSP	16.0±0.3	1.16±0.02	16.3±0.4
Kool KFMHP	16.2±0.4	1.12±0.03	16.4±0.4
Richland (25) KFMSP	16.2±0.3	1.09±0.02	15.6±0.3
Richland 20's KFSP	16.3±0.3	1.13±0.02	16.0±0.3
Richland 20's KFMSP	16.4±0.4	1.05±0.02	16.1±0.3
Malibu Filters KFSP	16.4±0.3	1.18±0.03	13.6±0.3
Marlboro 100's Red 100FHP	16.4±0.3	1.19±0.02	16.3±0.4
More 120s 120FSP	16.5±0.4	1.19±0.02	21.5±0.4
Marlboro 100's Red 100FSP	16.5±0.2	1.19±0.02	17.0±0.2
Richland 20's 100's 100FSP	16.6±0.3	1.23±0.02	17.3±0.4
Benson & Hedges 100's 100FMHP	16.6±0.3	1.17±0.02	16.4±0.3
More 120s 120FMSP	16.6±0.3	1.28±0.03	22.0±0.5
Marlboro KFMSP	16.6±0.3	1.09±0.03	15.6±0.3
Benson & Hedges 100's 100FHP	16.6±0.3	1.18±0.02	16.5±0.5
Benson & Hedges 100's 100FSP	16.6±0.3	1.19±0.02	16.2±0.4
Richland (25) KFSP	16.6±0.2	1.18±0.02	15.8±0.2
Kool Super Longs 100's 100FMSP	16.7±0.3	1.25±0.02	17.0±0.3
Richland 20's Menthol 100's 100FMSP	16.7±0.3	1.15±0.02	17.1±0.3
Benson & Hedges 100's 100FMSP	16.8±0.2	1.20±0.02	16.2±0.3
Philip Morris International 100FHP	16.8±0.4	1.15±0.02	15.6±0.4
Winston KFHP	16.8±0.3	1.06±0.02	16.9±0.3
Kool KFMSP	16.8±0.3	1.14±0.02	16.8±0.3

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Tobacco Institute Testing Laboratory
Market Sample 31
Sorted "Tar" Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Camel Filters KFHP	16.8±0.2	1.06±0.02	16.6±0.3
Salem 100's 100FMSP	16.8±0.3	1.19±0.02	16.1±0.3
Old Gold Filters KFSP	16.8±0.2	1.24±0.02	18.1±0.3
Philip Morris International 100FMHP	16.9±0.2	1.08±0.02	16.2±0.4
Alpine KFMSF	16.9±0.3	1.10±0.02	15.4±0.3
Winston 100's 100FSP	16.9±0.2	1.06±0.02	18.6±0.3
Marlboro KFHP	17.0±0.2	1.14±0.02	15.2±0.3
Marlboro 100's 100FHP	17.0±0.4	1.22±0.03	16.9±0.6
Pall Mall 100's 100FSP	17.0±0.3	1.28±0.02	17.1±0.3
Richland 100's (25) 100FSP	17.0±0.3	1.28±0.02	17.3±0.4
Marlboro 100's 100FSP	17.1±0.3	1.22±0.02	16.5±0.4
Winston KFSP	17.1±0.3	1.13±0.02	16.3±0.2
Cambridge Full Flavor KFSP	17.1±0.3	1.09±0.01	16.1±0.3
Max 120s 120FSP	17.1±0.4	1.34±0.03	17.7±0.4
Newport KFMSF	17.2±0.4	1.26±0.02	18.3±0.5
Malibu Menthol KFMSF	17.2±0.2	1.24±0.02	14.8±0.2
Newport 25's KFMSF	17.2±0.2	1.28±0.02	18.2±0.4
Marlboro 25's KFSP	17.2±0.3	1.13±0.02	15.9±0.3
Max 120s 120FMSP	17.2±0.4	1.38±0.03	17.0±0.5
Cambridge Full Flavor 100's 100FSP	17.2±0.3	1.17±0.02	16.0±0.3
Marlboro KFSP	17.4±0.2	1.17±0.02	16.9±0.4
Doral Full Flavor KFSP	17.4±0.2	0.92±0.01	19.6±0.4
Century 25's 100's 100FSP	17.5±0.3	1.13±0.02	20.9±0.5
Camel Filters 100's 100FSP	17.5±0.2	1.06±0.01	18.7±0.3
Tall 120s 120FMSP	18.0±0.3	1.57±0.03	16.5±0.5
Craven "A" Filter Standard Size RFHP	18.6±0.4	1.51±0.03	13.6±0.3
Newport 100's 100FMHP	19.2±0.2	1.46±0.02	19.4±0.4
Spring 100's 100FMSP	19.3±0.2	1.49±0.03	19.0±0.2
Newport 100's 100FMSP	19.3±0.3	1.47±0.03	19.4±0.4
Rothmans KFHP	19.4±0.4	1.34±0.02	22.5±0.7
Newport 25's 100FMSP	19.5±0.3	1.48±0.02	19.8±0.3
Old Gold Filter 100's 100FSP	19.7±0.3	1.50±0.03	19.6±0.4
Chesterfield RNFSP	20.0±0.5	1.30±0.03	13.3±0.4
Tall 120s 120FSP	20.4±0.3	1.64±0.03	20.2±0.4
Kool RNFMSF	21.5±0.8	1.36±0.03	14.5±0.2
Camel RNFSP	22.0±0.3	1.39±0.02	14.2±0.4
English Ovals KNFHP	23.8±0.6	1.87±0.04	15.6±0.5
Raleigh KNFSP	23.8±0.5	1.40±0.03	16.6±0.4
Chesterfield KNFSP	24.2±0.5	1.65±0.04	15.3±0.5
Lucky Strike RNFSP	24.4±0.5	1.52±0.02	16.5±0.3
Pall Mall 25's KNFSP	24.7±0.3	1.64±0.03	16.5±0.3
Pall Mall KNFSP	24.9±0.3	1.64±0.02	16.6±0.4
Herbert Tareyton KNFSP	25.1±0.9	1.58±0.03	17.8±0.4
Players RNFHP	25.2±0.4	1.74±0.03	15.9±0.4
Philip Morris Commander KNFSP	26.3±0.5	1.61±0.03	16.2±0.5
Old Gold Straights KNFSP	26.9±0.6	1.89±0.05	18.7±0.5

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Tobacco Institute Testing Laboratory
Market Sample 31
Sorted "Nicotine" Results

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
Carlton KFHP	<0.05	<0.5	<0.5
Now KFHP	<0.05	<0.5	<0.5
Now 100s 100FHP	<0.05	<0.5	<0.5
Carlton KFMSP	0.09±0.01	0.6±0.1	1.4±0.1
Carlton 100's 100FMHP	0.10±0.01	0.6±0.1	1.0±0.1
Carlton 100's 100FHP	0.10±0.01	0.7±0.1	1.1±0.1
Now KFMSP	0.13±0.01	1.1±0.1	2.3±0.1
Now KFSP	0.14±0.01	1.0±0.1	2.3±0.1
Carlton KFSP	0.15±0.01	1.3±0.1	2.4±0.1
Now 100s 100FSP	0.21±0.01	1.9±0.1	3.1±0.2
Kool Ultra KFMSP	0.21±0.02	2.2±0.2	2.7±0.2
Now 100s 100FMSP	0.26±0.01	2.5±0.1	4.3±0.2
Triumph KFSP	0.32±0.02	3.1±0.1	3.8±0.2
Triumph KFMSP	0.34±0.02	3.5±0.2	4.3±0.2
Carlton 100's 100FSP	0.35±0.01	3.4±0.1	4.6±0.2
Kent III KFSP	0.35±0.02	3.4±0.2	4.3±0.2
Cambridge Ultra Low Tar 100's 100FSP	0.41±0.01	4.7±0.2	6.6±0.3
Merit Ultra Lights KFMSP	0.42±0.01	4.5±0.1	5.9±0.2
Carlton 100's 100FMSP	0.42±0.01	4.5±0.1	6.4±0.2
Salem Ultra Lights KFMSP	0.43±0.01	4.9±0.1	7.7±0.2
Merit Ultra Lights KFSP	0.43±0.01	4.4±0.2	5.5±0.2
Tareyton Lights KFSP	0.44±0.01	5.2±0.2	6.0±0.2
Bright 100s 100FMSP	0.44±0.01	6.0±0.1	10.3±0.3
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	0.44±0.02	5.0±0.2	6.2±0.3
Kent III 100s 100FSP	0.45±0.01	4.7±0.2	6.6±0.3
Kool Ultra 100's 100FMSP	0.45±0.02	5.0±0.3	5.2±0.3
Salem Ultra Lights 100's 100FMSP	0.45±0.01	5.1±0.1	8.0±0.2
Winston Ultra Lights KFSP	0.46±0.01	5.5±0.2	8.5±0.2
True KFMSP	0.46±0.02	4.9±0.3	6.1±0.4
Benson & Hedges Deluxe Ultra Lights 100's 100FMHP	0.47±0.01	5.2±0.1	6.2±0.2
Winston Ultra Lights 100's 100FSP	0.47±0.02	5.3±0.2	9.0±0.3
Vantage Ultra Lights KFSP	0.47±0.01	5.5±0.1	8.0±0.2
True KFSP	0.48±0.02	5.1±0.2	6.4±0.3
Doral Ultra Lights 100's 100FSP	0.48±0.02	6.7±0.3	11.7±0.5
Triumph 100s 100FSP	0.50±0.02	5.3±0.3	7.4±0.4
Vantage Ultra Lights 100s 100FSP	0.50±0.01	5.8±0.1	9.5±0.2
Kent III 100s 100FHP	0.50±0.03	5.0±0.2	6.8±0.3
Merit Ultra Lights 100's 100FSP	0.50±0.01	5.3±0.1	7.4±0.2
Triumph 100s 100FMSP	0.52±0.01	5.4±0.2	7.5±0.2
Merit Ultra Lights 100's 100FMSP	0.53±0.02	6.0±0.2	8.2±0.3
Merit KFMSP	0.58±0.01	7.7±0.2	10.0±0.3
Merit KFSP	0.59±0.01	7.6±0.2	9.8±0.3
Merit KFHP	0.60±0.01	7.8±0.2	9.8±0.2
Vantage Menthol 100s 100FMSP	0.61±0.01	8.3±0.2	12.7±0.3
True 100's 100FMSP	0.61±0.03	6.7±0.4	7.3±0.5
True 100's 100FSP	0.61±0.02	6.7±0.3	7.4±0.4
Carlton 120's 120FMSP	0.62±0.03	6.2±0.2	5.5±0.2

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Market Sample 31
Sorted "Nicotine" Results

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
Carlton 120's 120FSP	0.62±0.02	6.5±0.2	5.6±0.2
Vantage 100s 100FSP	0.63±0.02	8.8±0.2	12.5±0.3
Winston Lights KFHP	0.63±0.01	9.7±0.2	11.7±0.3
Doral Menthol Lights KFMSP	0.64±0.01	11.7±0.2	14.0±0.2
Magna Lites KFSP	0.64±0.01	9.1±0.2	13.7±0.2
Camel Lights KFHP	0.64±0.01	9.9±0.2	11.8±0.3
Camel Lights KFSP	0.65±0.01	8.8±0.2	11.3±0.3
Belair 100's 100FMSP	0.67±0.02	8.8±0.2	9.1±0.2
Doral Lights KFSP	0.67±0.02	12.1±0.3	14.5±0.4
Tareyton Long Lights 100FSP	0.68±0.01	8.1±0.2	8.8±0.3
Lucky Strike Lights KFSP	0.68±0.02	8.4±0.3	10.2±0.3
Virginia Slims Lights 100FMHP	0.69±0.02	8.5±0.2	9.2±0.2
Kool Lights KFMSP	0.69±0.02	8.2±0.2	9.0±0.2
Vantage KFMSP	0.69±0.01	10.0±0.2	12.5±0.3
More Lights 100s 100FMHP	0.69±0.03	9.0±0.3	10.2±0.3
Century 25's Lights (25) KFSP	0.70±0.02	9.7±0.2	11.8±0.3
Virginia Slims Lights 100FHP	0.70±0.02	8.8±0.2	9.3±0.3
Doral Lights 100's 100FSP	0.70±0.02	11.3±0.3	12.9±0.3
Parliament Lights KFSP	0.71±0.02	9.1±0.2	10.4±0.2
Players Lights 25's KFMSP	0.71±0.01	10.0±0.2	11.1±0.4
Parliament Lights KFHP	0.72±0.02	9.5±0.2	10.3±0.4
Players Lights 25's KFSP	0.72±0.02	10.0±0.2	11.1±0.2
Salem Lights KFMSP	0.72±0.02	9.8±0.2	12.6±0.2
Winston Lights 100's 100FHP	0.72±0.02	9.9±0.2	11.8±0.3
Falcon Lights 100's 100FMSP	0.73±0.02	8.9±0.2	11.0±0.3
Capri 100FMHP	0.73±0.02	8.9±0.2	6.0±0.2
Kool Lights 100's 100FMSP	0.73±0.01	8.5±0.2	10.0±0.3
Doral Menthol Lights 100's 100FMSP	0.73±0.01	12.1±0.3	13.7±0.3
Dunhill Int Superior Mild 100FHP	0.73±0.01	8.4±0.2	10.5±0.2
Newport Lights KFMHP	0.73±0.02	8.6±0.2	9.5±0.3
Salem Lights 100's 100FMSP	0.74±0.02	9.3±0.3	11.1±0.4
Lucky Strike Lights 100's 100FSP	0.74±0.01	8.9±0.2	10.0±0.3
Kent Golden Lights KFSP	0.74±0.02	8.5±0.2	9.6±0.3
Newport Lights KFMSP	0.75±0.02	8.3±0.3	9.1±0.3
Winston Lights KFSP	0.75±0.01	10.7±0.2	13.2±0.3
Kent Golden Lights KFMSP	0.75±0.02	8.3±0.3	9.1±0.4
Vantage KFSP	0.75±0.02	10.5±0.2	13.5±0.3
Malibu Lights 100's 100FSP	0.75±0.02	9.1±0.2	10.6±0.4
Newport Stripes Slim Lights 100FMHP	0.76±0.02	9.3±0.2	11.4±0.2
Salem Slim Lights 100's 100FMHP	0.77±0.02	9.5±0.2	10.2±0.3
Marlboro Lights KFMSP	0.77±0.01	9.9±0.2	10.4±0.3
Falcon Lights KFSP	0.77±0.02	11.2±0.2	11.2±0.3
Merit 100's 100FMSP	0.78±0.02	10.1±0.2	12.0±0.3
Ritz 100 100FHP	0.78±0.02	10.4±0.3	11.5±0.4
Falcon Lights KFMSP	0.78±0.02	10.2±0.3	11.9±0.4
Capri 100FHP	0.78±0.02	9.2±0.2	6.4±0.2
Marlboro Lights KFMHP	0.78±0.02	10.2±0.2	11.2±0.3

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**Tobacco Institute Testing Laboratory
Market Sample 31
Sorted "Nicotine" Results**

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
More Lights 100s 100FHP	0.78±0.02	10.0±0.2	10.7±0.3
Kent Golden Lights KFHP	0.78±0.02	8.8±0.3	9.7±0.4
Malibu Lights KFSP	0.79±0.01	10.2±0.2	10.8±0.3
Marlboro Lights 25's KFSP	0.80±0.02	11.2±0.2	12.4±0.3
Merit 100's 100FSP	0.80±0.02	10.0±0.2	11.8±0.3
L & M Long Lights 100FSP	0.80±0.02	7.8±0.2	6.3±0.2
Camel Lights 100's 100FSP	0.81±0.01	11.4±0.2	15.0±0.3
Old Gold Lights KFSP	0.81±0.02	9.3±0.2	10.9±0.3
Winston Lights 100's 100FSP	0.81±0.01	11.4±0.2	13.4±0.3
Benson & Hedges Lights 100's 100FMSP	0.81±0.02	10.7±0.2	12.0±0.2
Pall Mall Red Lights KFSP	0.81±0.02	10.3±0.3	10.7±0.3
Ritz 100 100FMHP	0.81±0.02	11.1±0.3	11.5±0.3
Marlboro Lights 100's 100FHMP	0.81±0.02	10.2±0.2	11.2±0.4
Players 25's Lights 100's 100FMSP	0.81±0.01	11.4±0.2	13.7±0.3
Players KFMHP	0.82±0.01	11.9±0.2	12.3±0.2
Marlboro Lights KFHP	0.82±0.02	11.0±0.2	12.4±0.3
Marlboro Lights KFSP	0.83±0.02	11.2±0.2	12.2±0.3
Benson & Hedges Lights 100's 100FSP	0.83±0.02	10.7±0.2	13.0±0.3
Newport Lights 100's 100FMSP	0.83±0.02	9.0±0.3	9.5±0.4
Players KFHP	0.83±0.02	11.7±0.2	12.2±0.2
Cambridge Lights KFMSP	0.84±0.02	11.9±0.2	12.1±0.3
Doral Full Flavor 100's 100FSP	0.84±0.01	14.8±0.2	17.2±0.3
Century 25's Menthol Lights 100's 100FMSP	0.84±0.01	11.5±0.2	13.2±0.3
Newport Lights 100's 100FMHP	0.84±0.02	9.2±0.3	9.9±0.3
Belair KFMSP	0.84±0.01	10.7±0.2	9.8±0.2
Pall Mall Lights 100's 100FSP	0.84±0.02	10.3±0.2	12.0±0.3
Cambridge Lights KFSP	0.85±0.01	12.3±0.2	12.7±0.3
Marlboro Lights 100's 100FHP	0.85±0.02	10.8±0.2	12.3±0.3
Marlboro Lights 100's 100FSP	0.85±0.02	11.0±0.2	13.0±0.4
Kent Golden Lights 100s 100FMSP	0.85±0.02	9.3±0.2	10.0±0.3
Benson & Hedges Multifilter KFSP	0.85±0.02	11.2±0.3	10.8±0.2
Falcon Lights 100's 100FSP	0.85±0.02	12.1±0.2	14.8±0.4
Marlboro Lights 100's 100FMSP	0.86±0.01	10.9±0.1	12.0±0.3
Kent KFHP	0.86±0.02	11.3±0.2	12.9±0.3
Cambridge Lights 100's 100FMSP	0.86±0.01	11.9±0.2	14.6±0.4
Salem Lights 100's 100FMHP	0.86±0.02	11.3±0.2	11.6±0.2
Players 25's Lights 100's 100FSP	0.86±0.02	11.9±0.3	14.1±0.4
Kent Golden Lights 100s 100FSP	0.86±0.02	9.6±0.3	10.5±0.4
Cambridge Lights 100's 100FSP	0.87±0.02	12.0±0.2	14.5±0.4
Raleigh Lights KFSP	0.87±0.02	11.4±0.2	13.1±0.3
Pall Mall Red Lights 100's 100FSP	0.88±0.02	11.1±0.2	12.2±0.4
Viceroy Lights KFSP	0.88±0.02	11.3±0.3	13.1±0.3
Kool Milds KFMHP	0.88±0.02	11.6±0.3	11.3±0.3
Kent KFSP	0.88±0.02	12.0±0.2	13.9±0.3
Century 25's Lights 100's 100FSP	0.89±0.02	11.9±0.3	13.4±0.3
Richland Lights (25) KFSP	0.89±0.02	11.5±0.2	12.7±0.3
Lucky Strike KFSP	0.89±0.02	11.8±0.3	12.6±0.3

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Tobacco Institute Testing Laboratory
Market Sample 31
Sorted "Nicotine" Results

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
Richland 20's Lights 100's 100FSP	0.90±0.02	12.1±0.2	14.2±0.4
Magna KFHP	0.90±0.01	14.1±0.3	16.3±0.4
Richland 20's Lights KFSP	0.90±0.02	11.7±0.3	13.5±0.3
Silva Thins Menthol 100FMHP	0.90±0.01	11.1±0.2	11.7±0.3
Old Gold Lights 100s 100FSP	0.91±0.02	12.3±0.2	17.0±0.3
American Lights KFSP	0.91±0.02	11.9±0.2	12.9±0.3
Newport Stripes 100FMHP	0.91±0.02	12.2±0.2	16.5±0.2
Magna KFSP	0.91±0.02	13.9±0.2	14.9±0.2
Kent Golden Lights 100s 100FHP	0.91±0.02	10.2±0.2	11.2±0.4
Viceroy Lights 100's 100FSP	0.92±0.02	11.9±0.2	14.1±0.3
Doral Full Flavor KFSP	0.92±0.01	17.4±0.2	19.6±0.4
Lucky Strike KFHP	0.92±0.02	12.1±0.2	12.8±0.4
Kool Milds KFMSF	0.93±0.02	12.3±0.3	13.1±0.3
Raleigh Lights 100's 100FSP	0.94±0.02	12.2±0.3	14.3±0.3
Malibu Menthol 100's 100FMSP	0.94±0.02	11.6±0.2	12.5±0.3
Newport Stripes 100FHP	0.94±0.02	12.3±0.3	16.6±0.4
Richland Lights (25) 100's 100FSP	0.94±0.02	12.4±0.2	14.0±0.2
Parliament Lights 100's 100FSP	0.95±0.02	12.0±0.2	12.7±0.2
Kool Milds 100's 100FMSP	0.95±0.02	12.0±0.3	12.6±0.4
St. Moritz Menthol 100FMSP	0.96±0.01	14.9±0.3	17.1±0.4
Dunhill Menthol Mild 100FMHP	0.96±0.02	10.4±0.2	12.5±0.2
Lucky Strike Menthol 100's 100FMSP	0.96±0.02	11.8±0.1	12.3±0.2
Lucky Strike Filters 100's 100FSP	0.96±0.02	11.9±0.2	12.7±0.2
Raleigh KFSP	0.97±0.03	15.5±0.4	14.7±0.3
Viceroy KFSP	0.97±0.02	15.3±0.3	14.5±0.3
Satin 100FSP	0.97±0.02	11.4±0.3	13.1±0.4
Silva Thins Filters 100FHP	0.97±0.02	12.2±0.2	12.5±0.3
Satin 100FMSP	0.97±0.02	11.4±0.3	13.3±0.4
Silva Thins 100FSP	0.98±0.02	11.7±0.2	10.0±0.2
More Lights 120s 120FSP	0.98±0.01	12.9±0.2	20.2±0.5
Tareyton KFSP	0.98±0.02	14.3±0.3	15.9±0.3
Players 100's 100FMHP	0.98±0.02	14.0±0.2	12.7±0.3
Harley Davidson KFSP	0.98±0.02	14.1±0.3	16.3±0.4
Players 100's 100FHP	0.98±0.02	13.9±0.2	12.9±0.3
Century 25's (25) KFSP	0.99±0.02	15.3±0.3	17.8±0.3
More Lights 120s 120FMSP	0.99±0.03	12.2±0.4	19.6±0.5
Raleigh 100's 100FSP	0.99±0.02	15.5±0.3	16.0±0.3
Eve Slim Lights 100's 100FMHP	1.00±0.02	12.6±0.3	10.8±0.3
Camel Filters KFSP	1.01±0.02	15.6±0.3	15.4±0.2
Pall Mall Red Filters KFSP	1.02±0.02	13.6±0.3	12.6±0.3
Kent 100s 100FSP	1.02±0.02	13.6±0.3	14.7±0.4
Tareyton 100's 100FSP	1.02±0.02	14.1±0.2	16.8±0.4
Rothmans Special Mild KFHP	1.03±0.02	13.6±0.2	15.5±0.4
Eve Slim Lights 100's 100FHP	1.03±0.02	12.8±0.2	11.0±0.2
Lark Lights KFSP	1.03±0.02	13.4±0.3	13.3±0.3
Salem KFMSF	1.04±0.02	15.9±0.3	16.7±0.3
Kent 100s 100FMSP	1.04±0.01	14.0±0.2	14.4±0.3

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Tobacco Institute Testing Laboratory
Market Sample 31
Sorted "Nicotine" Results

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
Richland 20's KFMSF	1.05±0.02	16.4±0.4	16.1±0.3
Silva Thins Menthol 100FMSF	1.05±0.02	12.3±0.3	10.5±0.3
Camel Filters 100's 100FSP	1.06±0.01	17.5±0.2	18.7±0.3
Winston 100's 100FSP	1.06±0.02	16.9±0.2	18.6±0.3
Virginia Slims 100FMSF	1.06±0.03	15.1±0.3	13.9±0.3
Camel Filters KFHP	1.06±0.02	16.8±0.2	16.6±0.3
Winston KFHP	1.06±0.02	16.8±0.3	16.9±0.3
L & M 30's Lights 100's 100FSP	1.06±0.02	12.6±0.3	10.7±0.3
Virginia Slims Lights 120's 120FHP	1.07±0.02	14.5±0.2	14.9±0.3
Saratoga 120's 120FMHP	1.07±0.02	14.7±0.3	14.8±0.4
Saratoga 120's 120FHP	1.07±0.02	14.7±0.2	14.8±0.3
Virginia Slims 100FSP	1.07±0.02	15.3±0.2	13.8±0.3
Pall Mall Red Filters 100's 100FSP	1.07±0.02	13.8±0.3	14.0±0.2
American Lights 100's 100FSP	1.08±0.01	13.3±0.2	13.9±0.2
Virginia Slims Lights 120's 120FMHP	1.08±0.02	14.7±0.3	14.8±0.4
L & M KFSP	1.08±0.02	13.7±0.2	12.9±0.3
St. Moritz Filter 100s 100FSP	1.08±0.02	14.9±0.2	15.5±0.2
Philip Morris International 100FMHP	1.08±0.02	16.9±0.2	16.2±0.4
Pall Mall Light 100's Low Tar 100FMSF	1.08±0.02	13.3±0.2	13.1±0.3
Richland (25) KFMSF	1.09±0.02	16.2±0.3	15.6±0.3
Marlboro KFMSF	1.09±0.03	16.6±0.3	15.6±0.3
Cambridge Full Flavor KFSP	1.09±0.01	17.1±0.3	16.1±0.3
Malibu 100's 100FSP	1.10±0.02	13.9±0.3	13.4±0.3
Alpine KFMSF	1.10±0.02	16.9±0.3	15.4±0.3
Lark KFSP	1.11±0.03	14.3±0.3	13.3±0.3
L & M Super 100 100FSP	1.12±0.02	13.9±0.2	14.2±0.3
Kool KFMSF	1.12±0.03	16.2±0.4	16.4±0.4
Eve Lights 120's 120FHP	1.12±0.03	13.0±0.4	11.6±0.5
Richland 20's KFSP	1.13±0.02	16.3±0.3	16.0±0.3
Marlboro 25's KFSP	1.13±0.02	17.2±0.3	15.9±0.3
Winston KFSP	1.13±0.02	17.1±0.3	16.3±0.2
Century 25's 100's 100FSP	1.13±0.02	17.5±0.3	20.9±0.5
Marlboro KFHP	1.14±0.02	17.0±0.2	15.2±0.3
Viceroy Super Long 100's 100FSP	1.14±0.02	15.9±0.3	15.1±0.3
Kool KFMSF	1.14±0.02	16.8±0.3	16.8±0.3
Philip Morris International 100FHP	1.15±0.02	16.8±0.4	15.6±0.4
Lark Light 100's 100FSP	1.15±0.03	13.9±0.3	14.5±0.5
Richland 20's Menthol 100's 100FMSF	1.15±0.02	16.7±0.3	17.1±0.3
Craven "A" KFHP	1.15±0.02	15.8±0.4	16.3±0.4
Richland 100's (25) 100FMSF	1.16±0.02	16.0±0.3	16.3±0.4
Cambridge Full Flavor 100's 100FSP	1.17±0.02	17.2±0.3	16.0±0.3
Eve Lights 120's 120FMHP	1.17±0.02	13.5±0.2	12.0±0.3
Marlboro KFSP	1.17±0.02	17.4±0.2	16.9±0.4
Newport KFMSF	1.17±0.02	15.7±0.2	16.5±0.3
Benson & Hedges 100's 100FMHP	1.17±0.02	16.6±0.3	16.4±0.3
Richland (25) KFSP	1.18±0.02	16.6±0.2	15.8±0.2
Benson & Hedges 100's 100FHP	1.18±0.02	16.6±0.3	16.5±0.5

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Tobacco Institute Testing Laboratory
Market Sample 31
Sorted "Nicotine" Results

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
Malibu Filters KFSP	1.18±0.03	16.4±0.3	13.6±0.3
Marlboro 100's Red 100FSP	1.19±0.02	16.5±0.2	17.0±0.2
Marlboro 100's Red 100FHP	1.19±0.02	16.4±0.3	16.3±0.4
Salem 100's 100FMSP	1.19±0.02	16.8±0.3	16.1±0.3
Dunhill Menthol 100FMHP	1.19±0.02	14.2±0.3	17.0±0.4
Benson & Hedges 100's 100FSP	1.19±0.02	16.6±0.3	16.2±0.4
More 120s 120FSP	1.19±0.02	16.5±0.4	21.5±0.4
Benson & Hedges 100's 100FMSP	1.20±0.02	16.8±0.2	16.2±0.3
Marlboro 100's 100FSP	1.22±0.02	17.1±0.3	16.5±0.4
Lark 100FSP	1.22±0.02	14.7±0.2	14.0±0.2
Marlboro 100's 100FHP	1.22±0.03	17.0±0.4	16.9±0.6
Richland 20's 100's 100FSP	1.23±0.02	16.6±0.3	17.3±0.4
Malibu Menthol KFMSP	1.24±0.02	17.2±0.2	14.8±0.2
Old Gold Filters KFSP	1.24±0.02	16.8±0.2	18.1±0.3
Kool Super Longs 100's 100FMSP	1.25±0.02	16.7±0.3	17.0±0.3
Newport KFMSP	1.26±0.02	17.2±0.4	18.3±0.5
Benson & Hedges KFHP	1.26±0.02	15.4±0.2	12.6±0.3
Pall Mall 100's 100FSP	1.28±0.02	17.0±0.3	17.1±0.3
Richland 100's (25) 100FSP	1.28±0.02	17.0±0.3	17.3±0.4
Newport 25's KFMSP	1.28±0.02	17.2±0.2	18.2±0.4
More 120s 120FMSP	1.28±0.03	16.6±0.3	22.0±0.5
Chesterfield RNFSP	1.30±0.03	20.0±0.5	13.3±0.4
Max 120s 120FSP	1.34±0.03	17.1±0.4	17.7±0.4
Rothmans KFHP	1.34±0.02	19.4±0.4	22.5±0.7
Kool RNFMSF	1.36±0.03	21.5±0.8	14.5±0.2
Max 120s 120FMSP	1.38±0.03	17.2±0.4	17.0±0.5
Dunhill International 100FHP	1.39±0.03	15.2±0.3	17.6±0.3
Camel RNFSP	1.39±0.02	22.0±0.3	14.2±0.4
Raleigh KNFSP	1.40±0.03	23.8±0.5	16.6±0.4
Newport 100's 100FMHP	1.46±0.02	19.2±0.2	19.4±0.4
Newport 100's 100FMSP	1.47±0.03	19.3±0.3	19.4±0.4
Newport 25's 100FMSP	1.48±0.02	19.5±0.3	19.8±0.3
Spring 100's 100FMSP	1.49±0.03	19.3±0.2	19.0±0.2
Old Gold Filter 100's 100FSP	1.50±0.03	19.7±0.3	19.6±0.4
Craven "A" Filter Standard Size RFHP	1.51±0.03	18.6±0.4	13.6±0.3
Lucky Strike RNFSP	1.52±0.02	24.4±0.5	16.5±0.3
Tall 120s 120FMSP	1.57±0.03	18.0±0.3	16.5±0.5
Herbert Tareyton KNFSP	1.58±0.03	25.1±0.9	17.8±0.4
Philip Morris Commander KNFSP	1.61±0.03	26.3±0.5	16.2±0.5
Pall Mall KNFSP	1.64±0.02	24.9±0.3	16.6±0.4
Tall 120s 120FSP	1.64±0.03	20.4±0.3	20.2±0.4
Pall Mall 25's KNFSP	1.64±0.03	24.7±0.3	16.5±0.3
Chesterfield KNFSP	1.65±0.04	24.2±0.5	15.3±0.5
Players RNFHP	1.74±0.03	25.2±0.4	15.9±0.4
English Ovals KNFHP	1.87±0.04	23.8±0.6	15.6±0.5
Old Gold Straights KNFSP	1.89±0.05	26.9±0.6	18.7±0.5

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Tobacco Institute Testing Laboratory
Market Sample 31
Sorted Carbon Monoxide Results

Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Carlton KFHP	<0.5	<0.5	<0.05
Now KFHP	<0.5	<0.5	<0.05
Now 100s 100FHP	<0.5	<0.5	<0.05
Carlton 100's 100FMHP	1.0±0.1	0.6±0.1	0.10±0.01
Carlton 100's 100FHP	1.1±0.1	0.7±0.1	0.10±0.01
Carlton KFMSP	1.4±0.1	0.6±0.1	0.09±0.01
Now KFSP	2.3±0.1	1.0±0.1	0.14±0.01
Now KFMSP	2.3±0.1	1.1±0.1	0.13±0.01
Carlton KFSP	2.4±0.1	1.3±0.1	0.15±0.01
Kool Ultra KFMSP	2.7±0.2	2.2±0.2	0.21±0.02
Now 100s 100FSP	3.1±0.2	1.9±0.1	0.21±0.01
Triumph KFSP	3.8±0.2	3.1±0.1	0.32±0.02
Now 100s 100FMSP	4.3±0.2	2.5±0.1	0.26±0.01
Triumph KFMSP	4.3±0.2	3.5±0.2	0.34±0.02
Kent III KFSP	4.3±0.2	3.4±0.2	0.35±0.02
Carlton 100's 100FSP	4.6±0.2	3.4±0.1	0.35±0.01
Kool Ultra 100's 100FMSP	5.2±0.3	5.0±0.3	0.45±0.02
Carlton 120's 120FMSP	5.5±0.2	6.2±0.2	0.62±0.03
Merit Ultra Lights KFSP	5.5±0.2	4.4±0.2	0.43±0.01
Carlton 120's 120FSP	5.6±0.2	6.5±0.2	0.62±0.02
Merit Ultra Lights KFMSP	5.9±0.2	4.5±0.1	0.42±0.01
Tareyton Lights KFSP	6.0±0.2	5.2±0.2	0.44±0.01
Capri 100FMHP	6.0±0.2	8.9±0.2	0.73±0.02
True KFMSP	6.1±0.4	4.9±0.3	0.46±0.02
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	6.2±0.3	5.0±0.2	0.44±0.02
Benson & Hedges Deluxe Ultra Lights 100's 100FMHP	6.2±0.2	5.2±0.1	0.47±0.01
L & M Long Lights 100FSP	6.3±0.2	7.8±0.2	0.80±0.02
Capri 100FHP	6.4±0.2	9.2±0.2	0.78±0.02
Carlton 100's 100FMSP	6.4±0.2	4.5±0.1	0.42±0.01
True KFSP	6.4±0.3	5.1±0.2	0.48±0.02
Kent III 100s 100FSP	6.6±0.3	4.7±0.2	0.45±0.01
Cambridge Ultra Low Tar 100's 100FSP	6.6±0.3	4.7±0.2	0.41±0.01
Kent III 100s 100FHP	6.8±0.3	5.0±0.2	0.50±0.03
True 100's 100FMSP	7.3±0.5	6.7±0.4	0.61±0.03
Triumph 100s 100FSP	7.4±0.4	5.3±0.3	0.50±0.02
Merit Ultra Lights 100's 100FSP	7.4±0.2	5.3±0.1	0.50±0.01
True 100's 100FSP	7.4±0.4	6.7±0.3	0.61±0.02
Triumph 100s 100FMSP	7.5±0.2	5.4±0.2	0.52±0.01
Salem Ultra Lights KFMSP	7.7±0.2	4.9±0.1	0.43±0.01
Vantage Ultra Lights KFSP	8.0±0.2	5.5±0.1	0.47±0.01
Salem Ultra Lights 100's 100FMSP	8.0±0.2	5.1±0.1	0.45±0.01
Merit Ultra Lights 100's 100FMSP	8.2±0.3	6.0±0.2	0.53±0.02
Winston Ultra Lights KFSP	8.5±0.2	5.5±0.2	0.46±0.01
Tareyton Long Lights 100FSP	8.8±0.3	8.1±0.2	0.68±0.01
Winston Ultra Lights 100's 100FSP	9.0±0.3	5.3±0.2	0.47±0.02
Kool Lights KFMSP	9.0±0.2	8.2±0.2	0.69±0.02
Newport Lights KFMSP	9.1±0.3	8.3±0.3	0.75±0.02

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Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Kent Golden Lights KFMSP	9.1±0.4	8.3±0.3	0.75±0.02
Belair 100's 100FMSP	9.1±0.2	8.8±0.2	0.67±0.02
Virginia Slims Lights 100FMHP	9.2±0.2	8.5±0.2	0.69±0.02
Virginia Slims Lights 100FHP	9.3±0.3	8.8±0.2	0.70±0.02
Vantage Ultra Lights 100s 100FSP	9.5±0.2	5.8±0.1	0.50±0.01
Newport Lights 100's 100FMSP	9.5±0.4	9.0±0.3	0.83±0.02
Newport Lights KFMHP	9.5±0.3	8.6±0.2	0.73±0.02
Kent Golden Lights KFSP	9.6±0.3	8.5±0.2	0.74±0.02
Kent Golden Lights KFHP	9.7±0.4	8.8±0.3	0.78±0.02
Merit KFSP	9.8±0.3	7.6±0.2	0.59±0.01
Belair KFMSP	9.8±0.2	10.7±0.2	0.84±0.01
Merit KFHP	9.8±0.2	7.8±0.2	0.60±0.01
Newport Lights 100's 100FMHP	9.9±0.3	9.2±0.3	0.84±0.02
Silva Thins 100FSP	10.0±0.2	11.7±0.2	0.98±0.02
Lucky Strike Lights 100's 100FSP	10.0±0.3	8.9±0.2	0.74±0.01
Merit KFMSP	10.0±0.3	7.7±0.2	0.58±0.01
Kent Golden Lights 100s 100FMSP	10.0±0.3	9.3±0.2	0.85±0.02
Kool Lights 100's 100FMSP	10.0±0.3	8.5±0.2	0.73±0.01
More Lights 100s 100FMHP	10.2±0.3	9.0±0.3	0.69±0.03
Lucky Strike Lights KFSP	10.2±0.3	8.4±0.3	0.68±0.02
Salem Slim Lights 100's 100FMHP	10.2±0.3	9.5±0.2	0.77±0.02
Parliament Lights KFHP	10.3±0.4	9.5±0.2	0.72±0.02
Bright 100s 100FMSP	10.3±0.3	6.0±0.1	0.44±0.01
Parliament Lights KFSP	10.4±0.2	9.1±0.2	0.71±0.02
Marlboro Lights KFMSP	10.4±0.3	9.9±0.2	0.77±0.01
Dunhill Int Superior Mild 100FHP	10.5±0.2	8.4±0.2	0.73±0.01
Silva Thins Menthol 100FMSP	10.5±0.3	12.3±0.3	1.05±0.02
Kent Golden Lights 100s 100FSP	10.5±0.4	9.6±0.3	0.86±0.02
Malibu Lights 100's 100FSP	10.6±0.4	9.1±0.2	0.75±0.02
L & M 30's Lights 100's 100FSP	10.7±0.3	12.6±0.3	1.06±0.02
More Lights 100s 100FHP	10.7±0.3	10.0±0.2	0.78±0.02
Pall Mall Red Lights KFSP	10.7±0.3	10.3±0.3	0.81±0.02
Malibu Lights KFSP	10.8±0.3	10.2±0.2	0.79±0.01
Eve Slim Lights 100's 100FMHP	10.8±0.3	12.6±0.3	1.00±0.02
Benson & Hedges Multifilter KFSP	10.8±0.2	11.2±0.3	0.85±0.02
Old Gold Lights KFSP	10.9±0.3	9.3±0.2	0.81±0.02
Eve Slim Lights 100's 100FHP	11.0±0.2	12.8±0.2	1.03±0.02
Falcon Lights 100's 100FMSP	11.0±0.3	8.9±0.2	0.73±0.02
Players Lights 25's KFMSP	11.1±0.4	10.0±0.2	0.71±0.01
Players Lights 25's KFSP	11.1±0.2	10.0±0.2	0.72±0.02
Salem Lights 100's 100FMSP	11.1±0.4	9.3±0.3	0.74±0.02
Falcon Lights KFSP	11.2±0.3	11.2±0.2	0.77±0.02
Kent Golden Lights 100s 100FHP	11.2±0.4	10.2±0.2	0.91±0.02
Marlboro Lights 100's 100FHMP	11.2±0.4	10.2±0.2	0.81±0.02
Marlboro Lights KFMHP	11.2±0.3	10.2±0.2	0.78±0.02
Kool Milds KFMHP	11.3±0.3	11.6±0.3	0.88±0.02
Camel Lights KFSP	11.3±0.3	8.8±0.2	0.65±0.01

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Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Newport Stripes Slim Lights 100FMHP	11.4±0.2	9.3±0.2	0.76±0.02
Ritz 100 100FHP	11.5±0.4	10.4±0.3	0.78±0.02
Ritz 100 100FMHP	11.5±0.3	11.1±0.3	0.81±0.02
Eve Lights 120's 120FHP	11.6±0.5	13.0±0.4	1.12±0.03
Salem Lights 100's 100FMHP	11.6±0.2	11.3±0.2	0.86±0.02
Silva Thins Menthol 100FMHP	11.7±0.3	11.1±0.2	0.90±0.01
Winston Lights KFHP	11.7±0.3	9.7±0.2	0.63±0.01
Doral Ultra Lights 100's 100FSP	11.7±0.5	6.7±0.3	0.48±0.02
Camel Lights KFHP	11.8±0.3	9.9±0.2	0.64±0.01
Winston Lights 100's 100FHP	11.8±0.3	9.9±0.2	0.72±0.02
Merit 100's 100FSP	11.8±0.3	10.0±0.2	0.80±0.02
Century 25's Lights (25) KFSP	11.8±0.3	9.7±0.2	0.70±0.02
Falcon Lights KFMSP	11.9±0.4	10.2±0.3	0.78±0.02
Benson & Hedges Lights 100's 100FMSP	12.0±0.2	10.7±0.2	0.81±0.02
Marlboro Lights 100's 100FMSP	12.0±0.3	10.9±0.1	0.86±0.01
Merit 100's 100FMSP	12.0±0.3	10.1±0.2	0.78±0.02
Eve Lights 120's 120FMHP	12.0±0.3	13.5±0.2	1.17±0.02
Pall Mall Lights 100's 100FSP	12.0±0.3	10.3±0.2	0.84±0.02
Cambridge Lights KFMSP	12.1±0.3	11.9±0.2	0.84±0.02
Marlboro Lights KFSP	12.2±0.3	11.2±0.2	0.83±0.02
Players KFHP	12.2±0.2	11.7±0.2	0.83±0.02
Pall Mall Red Lights 100's 100FSP	12.2±0.4	11.1±0.2	0.88±0.02
Marlboro Lights 100's 100FHP	12.3±0.3	10.8±0.2	0.85±0.02
Lucky Strike Menthol 100's 100FMSP	12.3±0.2	11.8±0.1	0.96±0.02
Players KFMHP	12.3±0.2	11.9±0.2	0.82±0.01
Marlboro Lights 25's KFSP	12.4±0.3	11.2±0.2	0.80±0.02
Marlboro Lights KFHP	12.4±0.3	11.0±0.2	0.82±0.02
Dunhill Menthol Mild 100FMHP	12.5±0.2	10.4±0.2	0.96±0.02
Malibu Menthol 100's 100FMSP	12.5±0.3	11.6±0.2	0.94±0.02
Vantage KFMSP	12.5±0.3	10.0±0.2	0.69±0.01
Vantage 100s 100FSP	12.5±0.3	8.8±0.2	0.63±0.02
Silva Thins Filters 100FHP	12.5±0.3	12.2±0.2	0.97±0.02
Benson & Hedges KFHP	12.6±0.3	15.4±0.2	1.26±0.02
Pall Mall Red Filters KFSP	12.6±0.3	13.6±0.3	1.02±0.02
Lucky Strike KFSP	12.6±0.3	11.8±0.3	0.89±0.02
Salem Lights KFMSP	12.6±0.2	9.8±0.2	0.72±0.02
Kool Milds 100's 100FMSP	12.6±0.4	12.0±0.3	0.95±0.02
Cambridge Lights KFSP	12.7±0.3	12.3±0.2	0.85±0.01
Lucky Strike Filters 100's 100FSP	12.7±0.2	11.9±0.2	0.96±0.02
Parliament Lights 100's 100FSP	12.7±0.2	12.0±0.2	0.95±0.02
Vantage Menthol 100s 100FMSP	12.7±0.3	8.3±0.2	0.61±0.01
Players 100's 100FMHP	12.7±0.3	14.0±0.2	0.98±0.02
Richland Lights (25) KFSP	12.7±0.3	11.5±0.2	0.89±0.02
Lucky Strike KFHP	12.8±0.4	12.1±0.2	0.92±0.02
American Lights KFSP	12.9±0.3	11.9±0.2	0.91±0.02
L & M KFSP	12.9±0.3	13.7±0.2	1.08±0.02
Doral Lights 100's 100FSP	12.9±0.3	11.3±0.3	0.70±0.02

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Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Players 100's 100FHP	12.9±0.3	13.9±0.2	0.98±0.02
Kent KFHP	12.9±0.3	11.3±0.2	0.86±0.02
Benson & Hedges Lights 100's 100FSP	13.0±0.3	10.7±0.2	0.83±0.02
Marlboro Lights 100's 100FSP	13.0±0.4	11.0±0.2	0.85±0.02
Raleigh Lights KFSP	13.1±0.3	11.4±0.2	0.87±0.02
Kool Milds KFMSP	13.1±0.3	12.3±0.3	0.93±0.02
Satin 100FSP	13.1±0.4	11.4±0.3	0.97±0.02
Viceroy Lights KFSP	13.1±0.3	11.3±0.3	0.88±0.02
Pall Mall Light 100's Low Tar 100FMSP	13.1±0.3	13.3±0.2	1.08±0.02
Century 25's Menthol Lights 100's 100FMSP	13.2±0.3	11.5±0.2	0.84±0.01
Winston Lights KFSP	13.2±0.3	10.7±0.2	0.75±0.01
Lark KFSP	13.3±0.3	14.3±0.3	1.11±0.03
Lark Lights KFSP	13.3±0.3	13.4±0.3	1.03±0.02
Chesterfield RNFSP	13.3±0.4	20.0±0.5	1.30±0.03
Satin 100FMSP	13.3±0.4	11.4±0.3	0.97±0.02
Century 25's Lights 100's 100FSP	13.4±0.3	11.9±0.3	0.89±0.02
Malibu 100's 100FSP	13.4±0.3	13.9±0.3	1.10±0.02
Winston Lights 100's 100FSP	13.4±0.3	11.4±0.2	0.81±0.01
Vantage KFSP	13.5±0.3	10.5±0.2	0.75±0.02
Richland 20's Lights KFSP	13.5±0.3	11.7±0.3	0.90±0.02
Malibu Filters KFSP	13.6±0.3	16.4±0.3	1.18±0.03
Craven "A" Filter Standard Size RFHP	13.6±0.3	18.6±0.4	1.51±0.03
Doral Menthol Lights 100's 100FMSP	13.7±0.3	12.1±0.3	0.73±0.01
Players 25's Lights 100's 100FMSP	13.7±0.3	11.4±0.2	0.81±0.01
Magna Lites KFSP	13.7±0.2	9.1±0.2	0.64±0.01
Virginia Slims 100FSP	13.8±0.3	15.3±0.2	1.07±0.02
American Lights 100's 100FSP	13.9±0.2	13.3±0.2	1.08±0.01
Virginia Slims 100FMSP	13.9±0.3	15.1±0.3	1.06±0.03
Kent KFSP	13.9±0.3	12.0±0.2	0.88±0.02
Lark 100FSP	14.0±0.2	14.7±0.2	1.22±0.02
Pall Mall Red Filters 100's 100FSP	14.0±0.2	13.8±0.3	1.07±0.02
Richland Lights (25) 100's 100FSP	14.0±0.2	12.4±0.2	0.94±0.02
Doral Menthol Lights KFMSP	14.0±0.2	11.7±0.2	0.64±0.01
Viceroy Lights 100's 100FSP	14.1±0.3	11.9±0.2	0.92±0.02
Players 25's Lights 100's 100FSP	14.1±0.4	11.9±0.3	0.86±0.02
L & M Super 100 100FSP	14.2±0.3	13.9±0.2	1.12±0.02
Camel RNFSP	14.2±0.4	22.0±0.3	1.39±0.02
Richland 20's Lights 100's 100FSP	14.2±0.4	12.1±0.2	0.90±0.02
Raleigh Lights 100's 100FSP	14.3±0.3	12.2±0.3	0.94±0.02
Kent 100s 100FMSP	14.4±0.3	14.0±0.2	1.04±0.01
Kool RNFMSF	14.5±0.2	21.5±0.8	1.36±0.03
Cambridge Lights 100's 100FSP	14.5±0.4	12.0±0.2	0.87±0.02
Doral Lights KFSP	14.5±0.4	12.1±0.3	0.67±0.02
Lark Light 100's 100FSP	14.5±0.5	13.9±0.3	1.15±0.03
Viceroy KFSP	14.5±0.3	15.3±0.3	0.97±0.02
Cambridge Lights 100's 100FMSP	14.6±0.4	11.9±0.2	0.86±0.01
Kent 100s 100FSP	14.7±0.4	13.6±0.3	1.02±0.02

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Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Raleigh KFSP	14.7±0.3	15.5±0.4	0.97±0.03
Saratoga 120's 120FHP	14.8±0.3	14.7±0.2	1.07±0.02
Falcon Lights 100's 100FSP	14.8±0.4	12.1±0.2	0.85±0.02
Saratoga 120's 120FMHP	14.8±0.4	14.7±0.3	1.07±0.02
Virginia Slims Lights 120's 120FMHP	14.8±0.4	14.7±0.3	1.08±0.02
Malibu Menthol KFMSF	14.8±0.2	17.2±0.2	1.24±0.02
Magna KFSP	14.9±0.2	13.9±0.2	0.91±0.02
Virginia Slims Lights 120's 120FHP	14.9±0.3	14.5±0.2	1.07±0.02
Camel Lights 100's 100FSP	15.0±0.3	11.4±0.2	0.81±0.01
Viceroy Super Long 100's 100FSP	15.1±0.3	15.9±0.3	1.14±0.02
Marlboro KFHP	15.2±0.3	17.0±0.2	1.14±0.02
Chesterfield KNFSP	15.3±0.5	24.2±0.5	1.65±0.04
Camel Filters KFSP	15.4±0.2	15.6±0.3	1.01±0.02
Alpine KFMSF	15.4±0.3	16.9±0.3	1.10±0.02
Rothmans Special Mild KFHP	15.5±0.4	13.6±0.2	1.03±0.02
St. Moritz Filter 100's 100FSP	15.5±0.2	14.9±0.2	1.08±0.02
Marlboro KFMSF	15.6±0.3	16.6±0.3	1.09±0.03
Philip Morris International 100FHP	15.6±0.4	16.8±0.4	1.15±0.02
English Ovals KNFHP	15.6±0.5	23.8±0.6	1.87±0.04
Richland (25) KFMSF	15.6±0.3	16.2±0.3	1.09±0.02
Richland (25) KFSP	15.8±0.2	16.6±0.2	1.18±0.02
Marlboro 25's KFSP	15.9±0.3	17.2±0.3	1.13±0.02
Players RNFHP	15.9±0.4	25.2±0.4	1.74±0.03
Tareyton KFSP	15.9±0.3	14.3±0.3	0.98±0.02
Cambridge Full Flavor 100's 100FSP	16.0±0.3	17.2±0.3	1.17±0.02
Raleigh 100's 100FSP	16.0±0.3	15.5±0.3	0.99±0.02
Richland 20's KFSP	16.0±0.3	16.3±0.3	1.13±0.02
Cambridge Full Flavor KFSP	16.1±0.3	17.1±0.3	1.09±0.01
Salem 100's 100FMSP	16.1±0.3	16.8±0.3	1.19±0.02
Richland 20's KFMSF	16.1±0.3	16.4±0.4	1.05±0.02
Philip Morris Commander KNFSP	16.2±0.5	26.3±0.5	1.61±0.03
Philip Morris International 100FMHP	16.2±0.4	16.9±0.2	1.08±0.02
Benson & Hedges 100's 100FSP	16.2±0.4	16.6±0.3	1.19±0.02
Benson & Hedges 100's 100FMSP	16.2±0.3	16.8±0.2	1.20±0.02
Craven "A" KFHP	16.3±0.4	15.8±0.4	1.15±0.02
Winston KFSP	16.3±0.2	17.1±0.3	1.13±0.02
Harley Davidson KFSP	16.3±0.4	14.1±0.3	0.98±0.02
Magna KFHP	16.3±0.4	14.1±0.3	0.90±0.01
Richland 100's (25) 100FMSP	16.3±0.4	16.0±0.3	1.16±0.02
Marlboro 100's Red 100FHP	16.3±0.4	16.4±0.3	1.19±0.02
Benson & Hedges 100's 100FMHP	16.4±0.3	16.6±0.3	1.17±0.02
Kool KFMSF	16.4±0.4	16.2±0.4	1.12±0.03
Newport Stripes 100FMHP	16.5±0.2	12.2±0.2	0.91±0.02
Newport KFMSF	16.5±0.3	15.7±0.2	1.17±0.02
Marlboro 100's 100FSP	16.5±0.4	17.1±0.3	1.22±0.02
Tall 120's 120FMSP	16.5±0.5	18.0±0.3	1.57±0.03
Lucky Strike RNFSP	16.5±0.3	24.4±0.5	1.52±0.02

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Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Pall Mall 25's KNFSP	16.5±0.3	24.7±0.3	1.64±0.03
Benson & Hedges 100's 100FHP	16.5±0.5	16.6±0.3	1.18±0.02
Newport Stripes 100FHP	16.6±0.4	12.3±0.3	0.94±0.02
Pall Mall KNFSP	16.6±0.4	24.9±0.3	1.64±0.02
Camel Filters KFHP	16.6±0.3	16.8±0.2	1.06±0.02
Raleigh KNFSP	16.6±0.4	23.8±0.5	1.40±0.03
Salem KFMSP	16.7±0.3	15.9±0.3	1.04±0.02
Kool KFMSP	16.8±0.3	16.8±0.3	1.14±0.02
Tareyton 100's 100FSP	16.8±0.4	14.1±0.2	1.02±0.02
Marlboro 100's 100FHP	16.9±0.6	17.0±0.4	1.22±0.03
Winston KFHP	16.9±0.3	16.8±0.3	1.06±0.02
Marlboro KFSP	16.9±0.4	17.4±0.2	1.17±0.02
Old Gold Lights 100s 100FSP	17.0±0.3	12.3±0.2	0.91±0.02
Kool Super Longs 100's 100FMSP	17.0±0.3	16.7±0.3	1.25±0.02
Marlboro 100's Red 100FSP	17.0±0.2	16.5±0.2	1.19±0.02
Dunhill Menthol 100FMHP	17.0±0.4	14.2±0.3	1.19±0.02
Max 120s 120FMSP	17.0±0.5	17.2±0.4	1.38±0.03
Richland 20's Menthol 100's 100FMSP	17.1±0.3	16.7±0.3	1.15±0.02
Pall Mall 100's 100FSP	17.1±0.3	17.0±0.3	1.28±0.02
St. Moritz Menthol 100FMSP	17.1±0.4	14.9±0.3	0.96±0.01
Doral Full Flavor 100's 100FSP	17.2±0.3	14.8±0.2	0.84±0.01
Richland 100's (25) 100FSP	17.3±0.4	17.0±0.3	1.28±0.02
Richland 20's 100's 100FSP	17.3±0.4	16.6±0.3	1.23±0.02
Dunhill International 100FHP	17.6±0.3	15.2±0.3	1.39±0.03
Max 120s 120FSP	17.7±0.4	17.1±0.4	1.34±0.03
Herbert Tareyton KNFSP	17.8±0.4	25.1±0.9	1.58±0.03
Century 25's (25) KFSP	17.8±0.3	15.3±0.3	0.99±0.02
Old Gold Filters KFSP	18.1±0.3	16.8±0.2	1.24±0.02
Newport 25's KFMSP	18.2±0.4	17.2±0.2	1.28±0.02
Newport KFMSF	18.3±0.5	17.2±0.4	1.26±0.02
Winston 100's 100FSP	18.6±0.3	16.9±0.2	1.06±0.02
Camel Filters 100's 100FSP	18.7±0.3	17.5±0.2	1.06±0.01
Old Gold Straights KNFSP	18.7±0.5	26.9±0.6	1.89±0.05
Spring 100's 100FMSP	19.0±0.2	19.3±0.2	1.49±0.03
Newport 100's 100FMHP	19.4±0.4	19.2±0.2	1.46±0.02
Newport 100's 100FMSP	19.4±0.4	19.3±0.3	1.47±0.03
More Lights 120s 120FMSP	19.6±0.5	12.2±0.4	0.99±0.03
Doral Full Flavor KFSP	19.6±0.4	17.4±0.2	0.92±0.01
Old Gold Filter 100's 100FSP	19.6±0.4	19.7±0.3	1.50±0.03
Newport 25's 100FMSP	19.8±0.3	19.5±0.3	1.48±0.02
More Lights 120s 120FSP	20.2±0.5	12.9±0.2	0.98±0.01
Tall 120s 120FSP	20.2±0.4	20.4±0.3	1.64±0.03
Century 25's 100's 100FSP	20.9±0.5	17.5±0.3	1.13±0.02
More 120s 120FSP	21.5±0.4	16.5±0.4	1.19±0.02
More 120s 120FMSP	22.0±0.5	16.6±0.3	1.28±0.03
Rothmans KFHP	22.5±0.7	19.4±0.4	1.34±0.02

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Appendix C

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Butt Lengths

Brand	Length - mm
Alpine KFMSP	27,28,29
American Lights KFSPS	32,33,34
American Lights 100's 100FSP	34,35
Belair KFMSP	35,36
Belair 100's 100FMSP	38,39,40
Benson & Hedges KFHP	33,34
Benson & Hedges 100's 100FHP	35,36
Benson & Hedges 100's 100FMHP	35,36
Benson & Hedges 100's 100FSP	34,35,36
Benson & Hedges 100's 100FMSP	34,35,36
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	38,39,40
Benson & Hedges Deluxe Ultra Lights 100's 100FMHP	39,40
Benson & Hedges Lights 100's 100FSP	38,39,40
Benson & Hedges Lights 100's 100FMSP	38,39,40
Benson & Hedges Multifilter KFSP	32,33,34
Bright 100s 100FMSP	38
Cambridge Full Flavor KFSP	28
Cambridge Full Flavor 100's 100FSP	38,39,40
Cambridge Lights KFSP	33,34
Cambridge Lights KFMSP	33,34
Cambridge Lights 100's 100FSP	38,39,40
Cambridge Lights 100's 100FMSP	38,39,40
Cambridge Ultra Low Tar 100's 100FSP	38,39,40
Camel RNFSP	23
Camel Filters KFHP	25,26
Camel Filters KFSP	28,29
Camel Filters 100's 100FSP	34,35,36
Camel Lights KFHP	29,30,31
Camel Lights KFSP	33,34,35
Camel Lights 100's 100FSP	37,38
Capri 100FHP	35,36
Capri 100FMHP	35,36
Carlton KFHP	37,38,39,40,41
Carlton KFSP	32,33,33.5,34
Carlton KFMSP	32,33,34
Carlton 100's 100FHP	37,38,39
Carlton 100's 100FMHP	37,38,39
Carlton 100's 100FSP	34,35,36
Carlton 100's 100FMSP	34,35,36
Carlton 120's 120FSP	37,37.5,38,38.5,39
Carlton 120's 120FMSP	37,38,39
Century 25's (25) KFSP	29,30
Century 25's 100's 100FSP	37,38,39
Century 25's Lights (25) KFSP	23,24
Century 25's Lgts 100's 100FSP	37,38,39
Century 25's Menthol Lights 100's	38,39
Chesterfield RNFSP	23

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Butt Lengths

Brand	Length - mm
Chesterfield KNFSP	23
Doral Full Flavor KFSP	27,27.5,28
Doral Full Flavor 100's 100FSP	38,39
Doral Lights KFSP	33,33.5,34,34.5,35
Doral Menthol Lights KFMSP	34,34.5,35
Doral Lights 100's 100FSP	37,38,39
Doral Menthol Lights 100's 100FMSP	36,37,37.5,38,38.5,39,40
Doral Ultra Lights 100's 100FSP	37,38
English Ovals KNFHP	23
Eve Slim Lights 100's 100FHP	37,38,39
Eve Slim Lights 100's 100FMHP	37,38,39
Eve Lights 120's 120FHP	37,38,38.5,39
Eve Lights 120's 120FMHP	37,38,39
Falcon Lights KFSP	34,34.5,35,36
Falcon Lights KFMSP	34,34.5,35,36
Falcon Lights 100's 100FSP	38,39,40
Falcon Lights 100's 100FMSP	38,39
Harley Davidson KFSP	28,28.5,29
Herbert Tareyton KNFSP	23
Kent Golden Lights KFHP	32,32.5,33,33.5,34
Kent Golden Lights KFSP	34,34.5,35,35.5,36
Kent Golden Lights KFMSP	34,35,36
Kent Golden Lights 100s 100FHP	35,36,37
Kent Golden Lights 100s 100FSP	36,37,38
Kent Golden Lights 100s 100FMSP	34,35,36,37,38
Kent KFHP	27,28,29
Kent KFSP	28,28.5,29,30
Kent 100s 100FSP	36,37
Kent 100s 100FMSP	36,37,38
Kent III KFSP	34,35
Kent III 100s 100FHP	36,37,38,39
Kent III 100s 100FSP	35,36,37,37.5,38
Kool RNFMSMSP	23
Kool KFMHP	26,27
Kool KFMSP	29,30
Kool Super Longs 100's 100FMSP	35,36
Kool Lights KFMSP	33,34,35
Kool Lights 100's 100FMSP	38,39
Kool Milds KFMHP	28,29,30
Kool Milds KFMSP	34,35
Kool Milds 100's 100FMSP	39,40
Kool Ultra KFMSP	34,35
Kool Ultra 100's 100FMSP	39,40
L & M KFSP	33,33.5,34
L & M Super 100 100FSP	37,38
L & M Long Lights 100FSP	36,37,38,39,40
L & M 30's Lights 100's 100FSP	36,37,38,39,40

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Butt Lengths

Brand	Length - mm
Lark KFSP	32,33,33.5,34
Lark 100FSP	39,40
Lark Lights KFSP.....	32,33,34
Lark Light 100's 100FSP	37,38,39
Lucky Strike RNFSP.....	23
Lucky Strike KFHP.....	31,32,33,34,35
Lucky Strike KFSP.....	32,33,34
Lucky Strike Filters 100's 100FSP.....	34,35,36
Lucky Strike Menthol 100's 100FMSP	34,35,36
Lucky Strike Lights KFSP	32,33,33.5,34
Lucky Strike Lights 100's 100FSP	34,35,36
Magna KFHP	26,26.5
Magna KFSP.....	27,28,29
Magna Lites KFSP.....	33,34,35,36
Malibu Filters KFSP	26.5,27
Malibu Menthol KFMSP	26,26.5,27
Malibu 100's 100FSP.....	34,35,35.5,36,38
Malibu Menthol 100's 100FMSP	35,36
Malibu Lights KFSP	33
Malibu Lights 100's 100FSP.....	33,34,35,37
Marlboro KFHP.....	26,27
Marlboro KFSP	28,29
Marlboro KFMSP	27,28,29
Marlboro 100's 100FHP	34,35
Marlboro 100's 100FSP	34,35
Marlboro 25's KFSP	27,27.5,28,28.5,29
Marlboro Lights KFHP.....	33.5,34,34.5
Marlboro Lights KFMHP.....	33,34,35
Marlboro Lights KFSP	33,34,35
Marlboro Lights KFMSP	33,34,35
Marlboro Lights 100's 100FHP	38,39,40
Marlboro Lights 100's 100FHMP	38,39,40
Marlboro Lights 100's 100FSP	38,39,40
Marlboro Lights 100's 100FMSP	38,39,40
Marlboro Lights 25's KFSP	33,34,35
Marlboro 100's Red 100FHP.....	34,35
Marlboro 100's Red 100FSP.....	34,35,36
Max 120s 120FSP	37,38,39
Max 120s 120FMSP	37,38,39,40
Merit KFHP.....	34,35,35.5,36
Merit KFSP.....	34,34.5,35,35.5,36
Merit KFMSP	35,36
Merit 100's 100FSP	35,36
Merit 100's 100FMSP	38,39,40,41
Merit Ultra Lights KFSP	34,35,35.5,36,36.5
Merit Ultra Lights KFMSP.....	34,35,36
Merit Ultra Lights 100's 100FSP.....	38,38.5,39,39.5

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Butt Lengths

Brand	Length - mm
Merit Ultra Lights 100's 100FMSP	39,40
More 120s 120FSP	41,41.5,42
More 120s 120FMSP	42,43
More Lights 100s 100FHP	37,37.5,38
More Lights 100s 100FMHP	37,38
More Lights 120s 120FSP	37,38
More Lights 120s 120FMSP	37,38
Newport KFMHP	27,28,29,30
Newport KFMSP	28,29
Newport 100's 100FMHP	37,38
Newport 100's 100FMSP	36,37
Newport 25's KFMSP	28,29,30
Newport 25's 100FMSP	36,37
Newport Lights KFMHP	32,33
Newport Lights KFMSP	34,35,36
Newport Lights 100's 100FMHP	35,36,37
Newport Lights 100's 100FMSP	35,36,37,38,39
Newport Stripes 100FHP	35,36,36.5,37
Newport Stripes 100FMHP	35,36,36.5,37,38
Newport Stripes Slim Lights 100FMHP	37,38,39
Now KFHP	34,35
Now KFSP	33,34,34.5,35
Now KFMSP	33,34,34.5,35
Now 100s 100FHP	38,39
Now 100s 100FSP	37,38,39
Now 100s 100FMSP	37,37.5,38,39
Old Gold Straights KNFSP	23
Old Gold Filters KFSP	28,29,30
Old Gold Filter 100's 100FSP	34,35,36,36.5,37,37.5
Old Gold Lights KFSP	34,35,36
Old Gold Lights 100s 100FSP	35,36,36.5,37
Pall Mall KNFSP	23
Pall Mall 25's KNFSP	23
Pall Mall 100's 100FSP	34,35,35.5,36
Pall Mall Lights 100's 100FSP	36,37,38,39
Pall Mall Light 100's Low Tar 100FMSP	34,35,36
Pall Mall Red Filters KFSP	24,26,26.5,27,27.5,28,28.5
Pall Mall Red Filters 100's 100FSP	35,36
Pall Mall Red Lights KFSP	32,32.5,33,33.5
Pall Mall Red Lights 100's 100FSP	35,36
Parliament Lights KFHP	32.5,33
Parliament Lights KFSP	32.5,33,33.5,34
Parliament Lights 100's 100FSP	38,38.5,39
Philip Morris Commander KNFSP	23
Philip Morris International 100FHP	34.5,35,35.5
Philip Morris International 100FMHP	34,35
Players RNFHP	23

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Butt Lengths

Brand	Length - mm
Players KFHP.....	34,35,36
Players KFMHP.....	34,35,36
Players 100's 100FHP.....	38,38.5,39
Players 100's 100FMHP.....	38,39,40
Players Lights 25's KFSP.....	33,33.5,34,34.5,
Players Lights 25's KFMSP.....	33.5,34,34.5
Players 25's Lights 100's 100FSP.....	38,38.5,39,39.5
Players 25's Lights 100's 100FMSP.....	38.5,39,40
Raleigh KNFSP.....	23
Raleigh KFSP.....	29,30
Raleigh 100's 100FSP.....	35,36
Raleigh Lights KFSP.....	33,34,35,36
Raleigh Lights 100's 100FSP.....	39,40
Richland 20's KFSP.....	29,30
Richland 20's KFMSP.....	29,30
Richland 20's 100's 100FSP.....	35,36
Richland 20's Menthol 100's 100FMSP.....	35,36
Richland 20's Lights KFSP.....	35,36
Richland 20's Lights 100's 100FSP.....	39,40
Richland (25) KFSP.....	29,30
Richland (25) KFMSP.....	29,30
Richland 100's (25) 100FSP.....	34,34.5,35
Richland 100's (25) 100FMSP.....	35,36
Richland Lights (25) KFSP.....	35,36
Richland Lights (25) 100's 100FSP.....	39,40
Ritz 100 100FHP.....	37.5,38,38.5,39
Ritz 100 100FMHP.....	37,38,39
Salem KFMSP.....	27.5,28
Salem 100's 100FMSP.....	34,35
Salem Lights KFMSP.....	33,34,35
Salem Lights 100's 100FMHP.....	37,38,39,39.5,40
Salem Lights 100's 100FMSP.....	37,37.5,38
Salem Slim Lights 100's 100FMHP.....	36,37,37.5,38,39
Salem Ultra Lights KFMSP.....	33.5,34,34.5
Salem Ultra Lights 100's 100FMSP.....	37,37.5,38,38.5
Saratoga 120's 120FHP.....	38,39,39.5
Saratoga 120's 120FMHP.....	37,39
Satin 100FSP.....	34,35,36,37
Satin 100FMSP.....	34,35,36,37
Silva Thins Filters 100FHP.....	38,39,39.5
Silva Thins Menthol 100FMHP.....	37,38,39,40
Silva Thins 100FSP.....	34,35,35.5,36
Silva Thins Menthol 100FMSP.....	34,35,36,37,
Spring 100's 100FMSP.....	35,36,37
Tall 120s 120FSP.....	37,37.5,38,38.5,39
Tall 120s 120FMSP.....	37,37.5,38,38.5,39
Tareyton KFSP.....	26,26.5,27,28

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Butt Lengths

Brand	Length - mm
Tareyton 100's 100FSP	33,34,34.5,35,35.5,36,37
Tareyton Lights KFSP	34,34.5,35,35.5,36
Tareyton Long Lights 100FSP	34,34.5,35,35.5,36,37
Triumph KFSP	34,34.5,35,35.5,36
Triumph KFMSP	34,35,36
Triumph 100s 100FSP	36,36.5,37,38,38.5
Triumph 100s 100FMSP	35,36,36.5,37,38,38.5
True KFSP	32,32.5,33,34
True KFMSP	32,32.5,33,34.5,35
True 100's 100FSP	36,36.5,37
True 100's 100FMSP	35,35.5,36,36.5,37,37.5
Vantage KFSP	32,32.5,33,34
Vantage KFMSP	32.5,33
Vantage 100s 100FSP	35.5,36,37,37.5,38
Vantage Menthol 100s 100FMSP	37,37.5,38,38.5
Vantage Ultra Lights KFSP	34,34.5
Vantage Ultra Lights 100s 100FSP	37,37.5,38,38.5
Viceroy KFSP	29,30
Viceroy Super Long 100's 100FSP	35,36
Viceroy Lights KFSP	33,34,35,36
Viceroy Lights 100's 100FSP	39,40
Virginia Slims 100FSP	34,34.5,35
Virginia Slims 100FMSP	34.5,35
Virginia Slims Lights 100FHP	39,39.5,40
Virginia Slims Lights 100FMHP	38,38.5,39,39.5
Virginia Slims Lights 120's 120FHP	38,39,40
Virginia Slims Lights 120's 120FMHP	38,39,40
Winston KFHP	25,26
Winston KFSP	27,28,29
Winston 100's 100FSP	34,34.5,35,35.5
Winston Lights KFHP	29.5,30,30.5,31
Winston Lights KFSP	33,33.5,34,34.5,35
Winston Lights 100's 100FHP	37.5,38
Winston Lights 100's 100FSP	37.5,38,38.5
Winston Ultra Lights KFSP	33.5,34,35
Winston Ultra Lights 100's 100FSP	37.5,38,38.5
Craven "A" KFHP	24
Craven "A" Filter Standard Size RFHP	23
Dunhill International 100FHP	30.5,31
Dunhill Menthol 100FMHP	30.5,31
Dunhill Menthol Mild 100FMHP	31,32
Dunhill Int Superior Mild 100FHP	30.5,31
Rothmans KFHP	23.5,24
Rothmans Special Mild KFHP	26.5,27
St. Moritz Filter 100s 100FSP	35,35.5,36
St. Moritz Menthol 100FMSP	35,35.5

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